

BLUE BOOK

(continued)

Lepidopterous Larvae.

—Nos—

213 to 270.

HAR

summary of  
for Mr. 8  
66 or 91

213

Egg? in ash July 15, 1890. Circular,  
flat, disk-like, the lateral  
edge sharp, slanted somewhat  
from leaf by base rounding a little  
more nearly flat, rounded a  
little with a central low dome.  
Color grayish white, the dome  
darker with a central greenish  
spot and ring around it. Diam.  
egg? 1.6 mm, of dome 1.3 mm  
(It looks like Saturnus in <sup>from above</sup> projection)

Apartidod 121 sp? perhaps anglicus  
(see Packard on 4. tenebractor)



\* Sept 7 shed hds from cars (21 Even) 3.6 3.7 3.6 3.6 3.6 3.6  
3.6 3.6 3.6 (one found out doors hd 4.3) Sh hds 3.6 3.6 dead 3.5

2-14 molts Aug 13 Hd black; shiny; labri  
 & antennae white. W 4.3 mm <sup>ant</sup>  
 spot H 3.0 v red. E. <sup>11 mm long</sup> Wait on 12  
 pup. Shredded white, dense. <sup>all</sup> before  
 hair shed. The feet testaceous, abd  
 pale; the clasper long. C spots blackened  
 as stage advances the hair becomes yellow.  
 Coon Aug 29 compared; hairs thin &  
 (q.v) dead in coon with head 4.1 or 4.2  
 Pupa (sh hd 4.1) abd., large centrally, tapering  
 each way. Same as 220 B (q.v). This ex.  
 Another L 14 mm W 5.5 mm  
 dimorphed, L 10 mm W 4.5 [will die]  
 Sh hd 3.4; Hd pupa? 4.1;

Imago. April 1891 ♂ Cat. no. 5411  
cpd 6/12/91

mostly same Hd 3.5 mm body yellow  
black, venter broadly pale, hair shell  
ochre yellow the ~~keel~~ dorsal ridge  
a little darker 214

H. tessellata on hickory July 17, 1890  
H. black 2 shiny, legs white  
W 1.3 mm. Body light black  
warts ① 5-10 lent. ② S-d, ③ super  
stig. also ④ ⑤ ⑥ subventral small  
concolorous with body. Body  
semi-trans. whitish, prob on 3, ant  
on 4 and on 12 large s-d orange  
spots, prob bear thin short whitish  
hairs. <sup>(12-1.5+)</sup> Most of body 19. Hd same W 1.7 mm  
ant. whitish, prob ② on 4 black  
pencil and from ① on 12 same but  
the 2 orange over dorsum & form a  
single dorsal top. White pencil from  
③ on 12. White hair over head & tail  
Hair whitish. Orange spots same &  
dorsum blackish, body pale,  
spiracles white, distinct. ✓



Hds by alc 4 .6 .9 1.3 1.7 2.1 (2.6) (3.5) (4.7)

We have .4 .6 .9 1.3 1.6 [2.1] 2.7 3.5 4.3

[Little ones on body Hds 2.4 mm]

Body white & shiny, no yellow

H. YOSEMITE

usually green, C-spots white, a

anal plate black, each wart with

a single hair not Hd .6 mm Body

as before, but hair more abundant

mouth 7 Hd black latrim, bases of

(2.5+, 3-)

palpi white 2.7 mm Body black

obscured by the thick hair, spiracles

white, abd feet whitish, from row

on joint 384 & 12 grows a pencil of

long black hair & from row 3 on

324 and the large wart on 13 thinner

pencil of white hair, other hair even

close, tight not in gray. Warts get

except 3 on 12 which are pale and

have range about their bases. Trace

of the range mark on 3 & 4

July 28 HB 9 Black latrim & palpi white

as before. @ @ @ Warts black & 5 pl

blackish line centrally, more hair etc

[Aug 4 5 1.6] Body black aln. warts white

[Aug 8 1.6] 2.1 Body black aln. warts white

Hair gray, warts as mat. Hd black shiny

[Nov 14 1.6] 2.15 [Sept 3, 25h. hds. 3.6, 3.6] \*

Eggs of *C. regalis*? Rough. c-light July

17, 1890 Elliptical, punctured. Color

green (pale dirty yellow when found)

Diam 3 mm diam (2) 2.5 mm Height 1.8 mm

Hatched July 28 Hd dull orange (rather

higher than wide, slightly bilobed / snout

eyes & patch around them black, base

of palpi white 1.3 mm Body with a row

of 2-d short 1-spined hairs tipped by

a hair, those on 12 bifurcate each

of with a hair On 3 & 4 they are long

with many short spines, bifurcate at

tip. on 12 a single dorsal one. line on

on 3 & 4. Two other rows super tiny small

& sub tiny a little larger the latter

2-tipped, each with a hair, 2 large & 2

small spines on anal plate, all with

inner feet & abd outwardly and



ate Maple  
& Pine  
Mouth to anal plate black. Body  
pale pinkish brown with a trans-  
black stripe in seg. ant. area  
5-11 and 3 short || streaks per seg.  
the middle one largest in lateral  
region. Venter without black.  $\frac{1}{2}$  m  
on joints 5-11

Molt Aug. 3 Hd as before, light brown  
shiny. Spt blackish, eyes, antennae  
& mouth black, labia & bases ant. white  
W. 2.2 mm. Body brownish, paler  
dorsally on abdominal segs, brown as before  
black; spiracles with a broad external  
black border & some traces of black  
line on the sides, 2nd pair ringed  
with black, and black ventrally,  
anal plate a little blackish centrally.



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On Linden Water Co, some time ago  
 sort of fast cat. but does not jump  
 an wriggle July 20 fed green. joints  
 & palpi pale, eyes black, 4 round  
 black spots, one above eyes & another  
 at same height bet. the 3 central  
 suture. <sup>(2.5-3.2)</sup> Body long, & skin  
 skin folded in segmental sutures,  
 feet normal but last pair  
 extended (used) and larva walks  
 with looping motion. A number of  
 small blackish tubercles each  
 bearing a hair. Body translucent  
 velvety leaf green. L. 30 mm  
 but body no wider than head  
 coon at surface of ground July 24. 2nd  
 web. Pupa July 26

dead

copied  
 7/25/90

H. G. DYAR  
 YOSEMITE, CALIF.

1.5 2.2 3.3  
 {see 398  
 for I & II}

On Linden Apr 31 (1890) larva than  
 wide head is short, very slightly below  
 a brown line on each & connected by 3 irregular  
 bands & with 3 similar bands at each side  
 consequent part. A few hairs, jaws brown  
 head pale brown. Sutures brown. W 1.5 mm  
 Body with dorsal process on 5, 9 moderate  
 length rather thickset at 8 & 9 & elevated  
 a little at 9. Elevated at 12, each with  
 2 tubercles. 6 rows each side as in mat 18k.  
 2 larger one 2-5 each with a hair. Body a  
 purplish brown darker on dorsum, only a  
 little mottled. 3 & 4 except dorsal band green  
 white d. patch on 5 & 6 7 & 8 ant. conical  
 at antens with a red line. Warts 1 on 6 & 7  
 yellow. V marks on 10 & 11, whitish with warts  
 dorsal dots on 11 & 13 a little greenish



Sprinkles black Last feet not used.  
 molt Sept 1 Hd 2.2 mm Higher than wide, slightly bilobed  
 & flattened in front & at sides. A minute horn down  
 minute tubercles. Color pale brown, a band from joint  
 to vertex of each side, dark brown bordered with black  
 which extends over on the occiput. Side feet, a broad  
 with black & the space between the vertical bands  
 with purplish. gale & antures brown, tubercles & tips dark.  
 Body dark brown, heavily & irregularly reticulated on a  
 pale ground almost black along dorsum 8-13  
 ant laterally, in pale & 3 & 4 green all but a d-band  
 the venter broadly yellowish, narrowing to a band on 10 & 11  
 which contains 13. Processes on 5 long, tipped by 2-  
 3 yellow tubercles, tubercles on 9 & 12 unequal  
 the surrounding tubercles of 12 nearer together. All tubercles  
 are: lateral superior conical, each with a black stain.  
 Subspiracular white d-patch 5-8 contains 3 crimson lines  
 white tubercles 6-8 & 11 are yellow white V-mark on  
 10 & 11 taken in anture with white d-spot on 11.

Sprinkles black Pale centrally  
 molt Sept 8 W. Hd 3.3 mm (shed 2.2 mm)  
 10 & 11 it has a decided green  
 The mottling on the ground  
 are much darker on the dorsal  
 2-4 on the base of the process  
 and ending the anterior part  
 fine line  
 line on 8. Behind the patch post,  
 from joint 7, and forming a broad  
 dorsal blackish band, continuing  
 on joints 8, 9 & 10 but interrupted  
 on 11 by the usual V-shaped mark  
 this mark is broad, creamy white  
 containing some crimson red lines  
 consists of a subd patch on 10  
 and 2 oblique s-b bands on  
 between which is a small white  
 central spot. The blackish dorsal  
 band fills in the space between these  
 and is continued more  
 evenly than before to the anal plate  
 10 & 11 it has a decided green  
 The mottling on the ground  
 are much darker on the dorsal  
 2-4 on the base of the process  
 and ending the anterior part



9th Gale patch on 5-8. and also  
 Subventrally. Spinal. brown, pale  
 centrally in thin black border. The  
 abd. concolorous with body and shining  
 feet reddish, Venter pale yellowish  
 Length 30 mm The central abd feet  
 are not held together so closely as in  
 C. lepturides. Laid for pupation  
 July 26 Coven in pill box, under leaves  
 of apple this week.  
 Pupa July 31 Cylindrical, abd  
 segs gently tapering, wing cases  
 prominent, at post. edge of thorax  
 a row of subcircular granular  
 elevations. Cicada-like 2 apices with  
 a thorn-like process pointing in-  
 wards. Body prominent, especially  
 in seg suture, cases smooth.  
 color mahogany red, very shiny.  
 Imago Aug 10 Schizura thomocacti

a few hairs  
 after the  
 body is  
 fully  
 developed

Calc. .45 .64 .92 1.3 1.9 2.7 r. 70  
 found .4 .6 .9 1.3 2.6 3.6  
 218 Copied for common  
 larva book  
 3/8/91.  
 Emergence July 26. 890. Hd. black  
 shiny, mouth paler. W. 4 mm Body whitish  
 warts apparently 5 rows, concolorous. Each ant  
 a black hair. Cephalic & anal plates  
 blackish. Length 3 mm Egg shell in  
 a loose cottony mass like short fibre  
 down, obtusely conical, the base flat W. 6 mm  
 Molt July 28 Hd black W. 6 mm Body  
 whitish, warts as in Anterior row of 1  
 3 pale brown the rest concolorous with body  
 a fine pale hair from each wart.  
 Molt July 31 Hd black, labrum & palpi  
 pale W. 9 mm Body greenish, warts  
 black, hair black, longest at ex-  
 tremities, a little tufted on 5 & 12  
 Molt Aug 3 Hd black, plate pale, labrum  
 & base of antennae white W. 13 mm Body  
 greenish, warts black, hair thick



tufted as in mat. larva. No tufts  
on 2; on 3 & 4 black pencils from  
② & ③ on 5 from ① & white from ②  
③ on 6-11 orange pencils about from ①  
& ②, black from ③ but on 11 only orange  
from ①, white from ② & ③ on 12 black  
from ① & ③, white from ②. On 13  
these black from large wart. ④-⑥  
are small & have a few black hairs.

Narrow whitish str. line. 8th feet  
black. Cervical spot black, discolored  
warts on <sup>center of</sup> legs segs. small, black.

Molt May 6 Hd black & shiny, labia a  
little paler w. 2 on Body black, con-  
cealed by the thick hair. Tufts as before  
but the subventral hair are largely  
white. Molt May 12 Hd black Labia  
& bases of antennae white w. 2.7 Body  
black, a whitish subvent. line.

claspers & abd. feet reddish. Hair <sup>same</sup>  
the tufts are folded over meeting on  
dorsal line, the orange & white alter-  
nating i.e. on 6-11 from ① orange  
from ② white from ③ black strake  
not straight sideways. other hair same  
2-8 on and 6 pad segs. white.

Coon Aug 17 of hairy silk. Thins.  
Pupa

Imago March 8 1891  
Erichaetes egle



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Little offspring on elm July 29, 1890. Head round, dull pale green. Jan. black

W 1/3 mm Body cylindrical, granulated light green, a yellow s-d yellow line absent on 2, 6, 13 and 8 oblique lateral yellow line the 12<sup>th</sup> on 5 only above the s-d line, the rest from feet nearly meeting over the back, the last passing to base of caudal horn which is

long (2.4 mm) smooth, very minutely pilose, dark red horn tipped with black. A pair of elevated spots each bearing a hair on dorsum of 3 & 4

Granular yellowish. L (nat) 11 mm

Molt July 28 Sub A, granulated with creamy conical elevations, 1 mm ant. & abd. lobe longest. Hd, green, gran yellowish, malp. reddish, eyes black. W 1.7 mm (1.5 + .2)

Body green with many conical granules like the head, the largest 3 have situated closely in lines like the yellow line of last stage. A row on collar and 2 on dorsum joint 3 & 4 while the others are closely covering the body & transverse with each annulet (8) Caudal horn spinose, various as are thoracic feet.

Molt Aug 2 Hd as before, the granules are heavier at the L giving the appearance of a vertical line. Eyes small blackish (25 just through) continuous with brownish. W 2.5 mm

Body as before, the heavier granulations are some what apparently arranged. They are a trans. row on collar, 1 row s-d line on 3 & 4, s-d row on 2-4, geminate dorsal line to 12 & 7 oblique lateral line, the one formerly on 5 and the



*[Faint handwriting on lined paper]*

This image shows a single, blank page from a lined notebook. The page is white with faint, horizontal blue or grey ruling lines spaced evenly down its length. On the far left side, the dark, textured binding of the notebook is visible, showing where the page is stitched or glued into the cover. There are no markings, text, or drawings on the page itself.



Sample #1 6.9 1.2 1.7 2.5 3.5 points

H. G. 12 MAR 1991  
Yosemite, CAL. 6/12/91

*Eugenia aculeata* July 29  
Hb. 7-10-18  
3.3

anyone else in the house says a word to me

white & yellowish green

1. Yellow-bellied Sapsucker - 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837,

2. ... 3 m, 3 - 2.26 1.7,  
 3. ... 2.4 3.5 ... 3.8  
 4. ... 2.5 3.5 ... 3.8

11908, 70425, 10717 - *H. hirsuta*

220						2.3	2.3
210A	4	6	7	14	16	2.5	2.5
220B	4	H <sub>2</sub>	G	DYAH		3.0	3.0

Yosemite, Cal.

1. 1/2 cup of sugar  
1. 1/2 cup of sugar

4.2.1 As vague to. Not to  
have more about it. It is all over.

atly. Made over 13

9. 11. 1900

[illegible]

Handwritten notes at bottom of page 10:

Handwritten note: "The above is a copy of the original." (faint)

Handwritten note: "The above is a copy of the original." (faint)

17

Ammonium phosphate,  $\text{NH}_4\text{H}_2\text{PO}_4$  (100 g)



11-62 4d 2.6,  
12-62 4d 1.7

22 = B (19-40-10-10-10-10)

12-62 4d 1.7  
12-62 4d 1.7

12-62 4d 1.7  
12-62 4d 1.7

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12-62 4d 3.6  
12-62 4d 3.6

Pupa Aug 27 Cylindrical, tapering a little toward both ends, the last 2 abd. segs rounded and appressed. No cremaster. Eye prominent a narrow carinated ridge runs along head. Suture between eyes to back of occiput; antennae bases adpressed & very minutely punctured, not shiny as in a body subdivisions; the latter minutely granulated at the anterior half of each abd. seg. Spiracles distinct. Color dark reddish brown, with a blackish shade over the dorsal surface, 18 mm width 6.5 mm

*Cernea multiscripta*?

Chicago Feb 25 1891 C. multivittata ♀  
Egg under 1/4 in. old (1891) deposited covered with small  
round granules, not closely enough to form reticulation  
but deeper than the scales on other species.  
The scales are irregularly laid

leaf next Vase. W. 3 mm Larva hatched  
by hole in the Vase - shell untouched

1896

1891

1. *Alnus*  
 2. *Populus*  
 3. *Salix*  
 4. *Corylus*  
 5. *Castanea*  
 6. *Quercus*  
 7. *Fagus*  
 8. *Ulmus*  
 9. *Prunus*  
 10. *Amygdalus*  
 11. *Cerasus*  
 12. *Pyrus*  
 13. *Malus*  
 14. *Rubus*  
 15. *Sorbus*  
 16. *Malva*  
 17. *Rosa*  
 18. *Crataegus*  
 19. *Spiraea*  
 20. *Geopelia*  
 21. *Asperula*  
 22. *Thymus*  
 23. *Origanum*  
 24. *Salvia*  
 25. *Leucas*  
 26. *Phlomis*  
 27. *Scorpioides*  
 28. *Verbena*  
 29. *Antennaria*  
 30. *Plantago*  
 31. *Galium*  
 32. *Urtica*  
 33. *Samolus*  
 34. *Portulaca*  
 35. *Cerastium*  
 36. *Stellaria*  
 37. *Chenopodium*  
 38. *Amaranthus*  
 39. *Portulaca*  
 40. *Cerastium*  
 41. *Stellaria*  
 42. *Chenopodium*  
 43. *Amaranthus*  
 44. *Portulaca*  
 45. *Cerastium*  
 46. *Stellaria*  
 47. *Chenopodium*  
 48. *Amaranthus*  
 49. *Portulaca*  
 50. *Cerastium*  
 51. *Stellaria*  
 52. *Chenopodium*  
 53. *Amaranthus*  
 54. *Portulaca*  
 55. *Cerastium*  
 56. *Stellaria*  
 57. *Chenopodium*  
 58. *Amaranthus*  
 59. *Portulaca*  
 60. *Cerastium*  
 61. *Stellaria*  
 62. *Chenopodium*  
 63. *Amaranthus*  
 64. *Portulaca*  
 65. *Cerastium*  
 66. *Stellaria*  
 67. *Chenopodium*  
 68. *Amaranthus*  
 69. *Portulaca*  
 70. *Cerastium*  
 71. *Stellaria*  
 72. *Chenopodium*  
 73. *Amaranthus*  
 74. *Portulaca*  
 75. *Cerastium*  
 76. *Stellaria*  
 77. *Chenopodium*  
 78. *Amaranthus*  
 79. *Portulaca*  
 80. *Cerastium*  
 81. *Stellaria*  
 82. *Chenopodium*  
 83. *Amaranthus*  
 84. *Portulaca*  
 85. *Cerastium*  
 86. *Stellaria*  
 87. *Chenopodium*  
 88. *Amaranthus*  
 89. *Portulaca*  
 90. *Cerastium*  
 91. *Stellaria*  
 92. *Chenopodium*  
 93. *Amaranthus*  
 94. *Portulaca*  
 95. *Cerastium*  
 96. *Stellaria*  
 97. *Chenopodium*  
 98. *Amaranthus*  
 99. *Portulaca*  
 100. *Cerastium*

17th St. a mile S. of  
where the stream is ~~about~~ 1 mile S. of



H. G. DYAR

YOSEMITE, CAL.

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with a

bottom

V

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H. G. DYAR

YOSEMITE, CAL.

the space

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the rest

a form becomes

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Copied

H. G. DYAR

YOSEMITE, CAL.

July 29 3/10 Hd rounded quadrate,  
flat in front, dead brownish black  
(antennae white) Lower part of head  
paler and center in front mottled  
with yellow; labrum & eyes brown. 1.3  
Body green with several rows of  
minute purple spots, a pair  
of dark heavily spined curved  
horns, brown black, tail of horns  
dark red brown. <sup>thick</sup> ~~once~~ broadly annulated  
with yellowish <sup>topped with same color</sup>  
a purple-brown s.d. line, passing  
down side to spiracle on 7th, a little  
interrupted especially on 5; the  
s.d. space filled in with purple brown  
on joints 6-9, 11 & 13 though not com-  
pletely on 8 & 9 and base of dorsal

H. G. DYAR

line on the other side. Venter whitish  
egg shells, very little and then brown  
spherical, base flat, dead black. H 1.2  
Slightly tipped by a hole in side, shell left?  
width 1/2 H. higher than wide, 20-30  
white flatish on 10. D. brown  
black on 10-12, 14-16, 18-20, 22-24  
brownish on 25-26, 28-30, 32-34  
white on 35-36. 2.2.2. 2.2.2. 2.2.2.  
Horns thick, base of horns annulated  
in the bottom about 1/2 way up with  
a few only the top of horns annulated  
finely spined. 2.2.2. 2.2.2. 2.2.2.  
2.2.2. 2.2.2. 2.2.2. 2.2.2. 2.2.2.  
black, mottled with little  
spot on a larger on 4-9, 11-13, 15-17, 19-21,  
23-25, 27-29, 31-33, 35-37, 39-41, 43-45, 47-49, 51-53,  
55-57, 59-61, 63-65, 67-69, 71-73, 75-77, 79-81, 83-85, 87-89, 91-93, 95-97, 99-101, 103-105, 107-109, 111-113, 115-117, 119-121, 123-125, 127-129, 131-133, 135-137, 139-141, 143-145, 147-149, 151-153, 155-157, 159-161, 163-165, 167-169, 171-173, 175-177, 179-181, 183-185, 187-189, 191-193, 195-197, 199-201, 203-205, 207-209, 211-213, 215-217, 219-221, 223-225, 227-229, 231-233, 235-237, 239-241, 243-245, 247-249, 251-253, 255-257, 259-261, 263-265, 267-269, 271-273, 275-277, 279-281, 283-285, 287-289, 291-293, 295-297, 299-301, 303-305, 307-309, 311-313, 315-317, 319-321, 323-325, 327-329, 331-333, 335-337, 339-341, 343-345, 347-349, 351-353, 355-357, 359-361, 363-365, 367-369, 371-373, 375-377, 379-381, 383-385, 387-389, 391-393, 395-397, 399-401, 403-405, 407-409, 411-413, 415-417, 419-421, 423-425, 427-429, 431-433, 435-437, 439-441, 443-445, 447-449, 451-453, 455-457, 459-461, 463-465, 467-469, 471-473, 475-477, 479-481, 483-485, 487-489, 491-493, 495-497, 499-501, 503-505, 507-509, 511-513, 515-517, 519-521, 523-525, 527-529, 531-533, 535-537, 539-541, 543-545, 547-549, 551-553, 555-557, 559-561, 563-565, 567-569, 571-573, 575-577, 579-581, 583-585, 587-589, 591-593, 595-597, 599-601, 603-605, 607-609, 611-613, 615-617, 619-621, 623-625, 627-629, 631-633, 635-637, 639-641, 643-645, 647-649, 651-653, 655-657, 659-661, 663-665, 667-669, 671-673, 675-677, 679-681, 683-685, 687-689, 691-693, 695-697, 699-701, 703-705, 707-709, 711-713, 715-717, 719-721, 723-725, 727-729, 731-733, 735-737, 739-741, 743-745, 747-749, 751-753, 755-757, 759-761, 763-765, 767-769, 771-773, 775-777, 779-781, 783-785, 787-789, 791-793, 795-797, 799-801, 803-805, 807-809, 811-813, 815-817, 819-821, 823-825, 827-829, 831-833, 835-837, 839-841, 843-845, 847-849, 851-853, 855-857, 859-861, 863-865, 867-869, 871-873, 875-877, 879-881, 883-885, 887-889, 891-893, 895-897, 899-901, 903-905, 907-909, 911-913, 915-917, 919-921, 923-925, 927-929, 931-933, 935-937, 939-941, 943-945, 947-949, 951-953, 955-957, 959-961, 963-965, 967-969, 971-973, 975-977, 979-981, 983-985, 987-989, 991-993, 995-997, 999-1001, 1003-1005, 1007-1009, 1011-1013, 1015-1017, 1019-1021, 1023-1025, 1027-1029, 1031-1033, 1035-1037, 1039-1041, 1043-1045, 1047-1049, 1051-1053, 1055-1057, 1059-1061, 1063-1065, 1067-1069, 1071-1073, 1075-1077, 1079-1081, 1083-1085, 1087-1089, 1091-1093, 1095-1097, 1099-1101, 1103-1105, 1107-1109, 1111-1113, 1115-1117, 1119-1121, 1123-1125, 1127-1129, 1131-1133, 1135-1137, 1139-1141, 1143-1145, 1147-1149, 1151-1153, 1155-1157, 1159-1161, 1163-1165, 1167-1169, 1171-1173, 1175-1177, 1179-1181, 1183-1185, 1187-1189, 1191-1193, 1195-1197, 1199-1201, 1203-1205, 1207-1209, 1211-1213, 1215-1217, 1219-1221, 1223-1225, 1227-1229, 1231-1233, 1235-1237, 1239-1241, 1243-1245, 1247-1249, 1251-1253, 1255-1257, 1259-1261, 1263-1265, 1267-1269, 1271-1273, 1275-1277, 1279-1281, 1283-1285, 1287-1289, 1291-1293, 1295-1297, 1299-1301, 1303-1305, 1307-1309, 1311-1313, 1315-1317, 1319-1321, 1323-1325, 1327-1329, 1331-1333, 1335-1337, 1339-1341, 1343-1345, 1347-1349, 1351-1353, 1355-1357, 1359-1361, 1363-1365, 1367-1369, 1371-1373, 1375-1377, 1379-1381, 1383-1385, 1387-1389, 1391-1393, 1395-1397, 1399-1401, 1403-1405, 1407-1409, 1411-1413, 1415-1417, 1419-1421, 1423-1425, 1427-1429, 1431-1433, 1435-1437, 1439-1441, 1443-1445, 1447-1449, 1451-1453, 1455-1457, 1459-1461, 1463-1465, 1467-1469, 1471-1473, 1475-1477, 1479-1481, 1483-1485, 1487-1489, 1491-1493, 1495-1497, 1499-1501, 1503-1505, 1507-1509, 1511-1513, 1515-1517, 1519-1521, 1523-1525, 1527-1529, 1531-1533, 1535-1537, 1539-1541, 1543-1545, 1547-1549, 1551-1553, 1555-1557, 1559-1561, 1563-1565, 1567-1569, 1571-1573, 1575-1577, 1579-1581, 1583-1585, 1587-1589, 1591-1593, 1595-1597, 1599-1601, 1603-1605, 1607-1609, 1611-1613, 1615-1617, 1619-1621, 1623-1625, 1627-1629, 1631-1633, 1635-1637, 1639-1641, 1643-1645, 1647-1649, 1651-1653, 1655-1657, 1659-1661, 1663-1665, 1667-1669, 1671-1673, 1675-1677, 1679-1681, 1683-1685, 1687-1689, 1691-1693, 1695-1697, 1699-1701, 1703-1705, 1707-1709, 1711-1713, 1715-1717, 1719-1721, 1723-1725, 1727-1729, 1731-1733, 1735-1737, 1739-1741, 1743-1745, 1747-1749, 1751-1753, 1755-1757, 1759-1761, 1763-1765, 1767-1769, 1771-1773, 1775-1777, 1779-1781, 1783-1785, 1787-1789, 1791-1793, 1795-1797, 1799-1801, 1803-1805, 1807-1809, 1811-1813, 1815-1817, 1819-1821, 1823-1825, 1827-1829, 1831-1833, 1835-1837, 1839-1841, 1843-1845, 1847-1849, 1851-1853, 1855-1857, 1859-1861, 1863-1865, 1867-1869, 1871-1873, 1875-1877, 1879-1881, 1883-1885, 1887-1889, 1891-1893, 1895-1897, 1899-1901, 1903-1905, 1907-1909, 1911-1913, 1915-1917, 1919-1921, 1923-1925, 1927-1929, 1931-1933, 1935-1937, 1939-1941, 1943-1945, 1947-1949, 1951-1953, 1955-1957, 1959-1961, 1963-1965, 1967-1969, 1971-1973, 1975-1977, 1979-1981, 1983-1985, 1987-1989, 1991-1993, 1995-1997, 1999-2001, 2003-2005, 2007-2009, 2011-2013, 2015-2017, 2019-2021, 2023-2025, 2027-2029, 2031-2033, 2035-2037, 2039-2041, 2043-2045, 2047-2049, 2051-2053, 2055-2057, 2059-2061, 2063-2065, 2067-2069, 2071-2073, 2075-2077, 2079-2081, 2083-2085, 2087-2089, 2091-2093, 2095-2097, 2099-2101, 2103-2105, 2107-2109, 2111-2113, 2115-2117, 2119-2121, 2123-2125, 2127-2129, 2131-2133, 2135-2137, 2139-2141, 2143-2145, 2147-2149, 2151-2153, 2155-2157, 2159-2161, 2163-2165, 2167-2169, 2171-2173, 2175-2177, 2179-2181, 2183-2185, 2187-2189, 2191-2193, 2195-2197, 2199-2201, 2203-2205, 2207-2209, 2211-2213, 2215-2217, 2219-2221, 2223-2225, 2227-2229, 2231-2233, 2235-2237, 2239-2241, 2243-2245, 2247-2249, 2251-2253, 2255-2257, 2259-2261, 2263-2265, 2267-2269, 2271-2273, 2275-2277, 2279-2281, 2283-2285, 2287-2289, 2291-2293, 2295-2297, 2299-2301, 2303-2305, 2307-2309, 2311-2313, 2315-2317, 2319-2321, 2323-2325, 2327-2329, 2331-2333, 2335-2337, 2339-2341, 2343-2345, 2347-2349, 2351-2353, 2355-2357, 2359-2361, 2363-2365, 2367-2369, 2371-2373, 2375-2377, 2379-2381, 2383-2385, 2387-2389, 2391-2393, 2395-2397, 2399-2401, 2403-2405, 2407-2409, 2411-2413, 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4235-4237, 4239-4241, 4243-4245, 4247-4249, 4251-4253, 4255-4257, 4259-4261, 4263-4265, 4267-4269, 4271-4273, 4275-4277, 4279-4281, 4283-4285, 4287-4289, 4291-4293, 4295-4297, 4299-4301, 4303-4305, 4307-4309, 4311-4313, 4315-4317, 4319-4321, 4323-4325, 4327-4329, 4331-4333, 4335-4337, 4339-4341, 4343-4345, 4347-4349, 4351-4353, 4355-4357, 4359-4361, 4363-4365, 4367-4369, 4371-4373, 4375-4377, 4379-4381, 4383-4385, 4387-4389, 4391-4393, 4395-4397, 4399-4401, 4403-4405, 4407-4409, 4411-4413, 4415-4417, 4419-4421, 4423-4425, 4427-4429, 4431-4433, 4435-4437, 4439-4441, 4443-4445, 4447-4



H. G. DYAR *personally connected with*

YOSEMITE, CAL.

a small one on 10 & 11 showing on  
 11 and around connected with  
 the last ① on 13, reflected in position  
 on cervical plate. ~~This is not the last~~  
~~one on 13, but the one on 14~~  
 twice on 14, with yellow  
 but ① on 14 is green at the  
 tip. Cervical plate is articulated  
 with 11. Cervical plate is  
 not bearing the tip of 11, which is  
 on 12. Cervical plate is white, with  
 some black, anterior white. 11, 12, 13  
 are all white smooth in  
 all the regions, the head  
 region is white, the body  
 is white, the tail is white.  
 The tail is white, the  
 tail is white, the tail is white.

\*  $\frac{1}{2} \frac{d}{dt} \left( \frac{1}{2} \frac{d}{dt} \right) H.$

H.

What get 2nd yr

QYD

YOSEMITE, CAL

*[Faint handwritten notes describing botanical specimens, possibly related to the "Black-headed Vireo" mentioned above.]*

H. G. DYAR

YOSEMITE, CAL.

Handwritten: H. G. DYAR  
9/13/90  
ROSENITE, AGA

JOSEPH E. AGAT

22-2, 4, 10, 14, 18, 22, 26, 30, 34, 38, 42, 46, 50, 54, 58, 62, 66, 70, 74, 78, 82, 86, 90, 94, 98, 102, 106, 110, 114, 118, 122, 126, 130, 134, 138, 142, 146, 150, 154, 158, 162, 166, 170, 174, 178, 182, 186, 190, 194, 198, 202, 206, 210, 214, 218, 222, 226, 230, 234, 238, 242, 246, 250, 254, 258, 262, 266, 270, 274, 278, 282, 286, 290, 294, 298, 302, 306, 310, 314, 318, 322, 326, 330, 334, 338, 342, 346, 350, 354, 358, 362, 366, 370, 374, 378, 382, 386, 390, 394, 398, 402, 406, 410, 414, 418, 422, 426, 430, 434, 438, 442, 446, 450, 454, 458, 462, 466, 470, 474, 478, 482, 486, 490, 494, 498, 502, 506, 510, 514, 518, 522, 526, 530, 534, 538, 542, 546, 550, 554, 558, 562, 566, 570, 574, 578, 582, 586, 590, 594, 598, 602, 606, 610, 614, 618, 622, 626, 630, 634, 638, 642, 646, 650, 654, 658, 662, 666, 670, 674, 678, 682, 686, 690, 694, 698, 702, 706, 710, 714, 718, 722, 726, 730, 734, 738, 742, 746, 750, 754, 758, 762, 766, 770, 774, 778, 782, 786, 790, 794, 798, 802, 806, 810, 814, 818, 822, 826, 830, 834, 838, 842, 846, 850, 854, 858, 862, 866, 870, 874, 878, 882, 886, 890, 894, 898, 902, 906, 910, 914, 918, 922, 926, 930, 934, 938, 942, 946, 950, 954, 958, 962, 966, 970, 974, 978, 982, 986, 990, 994, 998, 1002, 1006, 1010, 1014, 1018, 1022, 1026, 1030, 1034, 1038, 1042, 1046, 1050, 1054, 1058, 1062, 1066, 1070, 1074, 1078, 1082, 1086, 1090, 1094, 1098, 1102, 1106, 1110, 1114, 1118, 1122, 1126, 1130, 1134, 1138, 1142, 1146, 1150, 1154, 1158, 1162, 1166, 1170, 1174, 1178, 1182, 1186, 1190, 1194, 1198, 1202, 1206, 1210, 1214, 1218, 1222, 1226, 1230, 1234, 1238, 1242, 1246, 1250, 1254, 1258, 1262, 1266, 1270, 1274, 1278, 1282, 1286, 1290, 1294, 1298, 1302, 1306, 1310, 1314, 1318, 1322, 1326, 1330, 1334, 1338, 1342, 1346, 1350, 1354, 1358, 1362, 1366, 1370, 1374, 1378, 1382, 1386, 1390, 1394, 1398, 1402, 1406, 1410, 1414, 1418, 1422, 1426, 1430, 1434, 1438, 1442, 1446, 1450, 1454, 1458, 1462, 1466, 1470, 1474, 1478, 1482, 1486, 1490, 1494, 1498, 1502, 1506, 1510, 1514, 1518, 1522, 1526, 1530, 1534, 1538, 1542, 1546, 1550, 1554, 1558, 1562, 1566, 1570, 1574, 1578, 1582, 1586, 1590, 1594, 1598, 1602, 1606, 1610, 1614, 1618, 1622, 1626, 1630, 1634, 1638, 1642, 1646, 1650, 1654, 1658, 1662, 1666, 1670, 1674, 1678, 1682, 1686, 1690, 1694, 1698, 1702, 1706, 1710, 1714, 1718, 1722, 1726, 1730, 1734, 1738, 1742, 1746, 1750, 1754, 1758, 1762, 1766, 1770, 1774, 1778, 1782, 1786, 1790, 1794, 1798, 1802, 1806, 1810, 1814, 1818, 1822, 1826, 1830, 1834, 1838, 1842, 1846, 1850, 1854, 1858, 1862, 1866, 1870, 1874, 1878, 1882, 1886, 1890, 1894, 1898, 1902, 1906, 1910, 1914, 1918, 1922, 1926, 1930, 1934, 1938, 1942, 1946, 1950, 1954, 1958, 1962, 1966, 1970, 1974, 1978, 1982, 1986, 1990, 1994, 1998, 2002, 2006, 2010, 2014, 2018, 2022, 2026, 2030, 2034, 2038, 2042, 2046, 2050, 2054, 2058, 2062, 2066, 2070, 2074, 2078, 2082, 2086, 2090, 2094, 2098, 2102, 2106, 2110, 2114, 2118, 2122, 2126, 2130, 2134, 2138, 2142, 2146, 2150, 2154, 2158, 2162, 2166, 2170, 2174, 2178, 2182, 2186, 2190, 2194, 2198, 2202, 2206, 2210, 2214, 2218, 2222, 2226, 2230, 2234, 2238, 2242, 2246, 2250, 2254, 2258, 2262, 2266, 2270, 2274, 2278, 2282, 2286, 2290, 2294, 2298, 2302, 2306, 2310, 2314, 2318, 2322, 2326, 2330, 2334, 2338, 2342, 2346, 2350, 2354, 2358, 2362, 2366, 2370, 2374, 2378, 2382, 2386, 2390, 2394, 2398, 2402, 2406, 2410, 2414, 2418, 2422, 2426, 2430, 2434, 2438, 2442, 2446, 2450, 2454, 2458, 2462, 2466, 2470, 2474, 2478, 2482, 2486, 2490, 2494, 2498, 2502, 2506, 2510, 2514, 2518, 2522, 2526, 2530, 2534, 2538, 2542, 2546, 2550, 2554, 2558, 2562, 2566, 2570, 2574, 2578, 2582, 2586, 2590, 2594, 2598, 2602, 2606, 2610, 2614, 2618, 2622, 2626, 2630, 2634, 2638, 2642, 2646, 2650, 2654, 2658, 2662, 2666, 2670, 2674, 2678, 2682, 2686, 2690, 2694, 2698, 2702, 2706, 2710, 2714, 2718, 2722, 2726, 2730, 2734, 2738, 2742, 2746, 2750, 2754, 2758, 2762, 2766, 2770, 2774, 2778, 2782, 2786, 2790, 2794, 2798, 2802, 2806, 2810, 2814, 2818, 2822, 2826, 2830, 2834, 2838, 2842, 2846, 2850, 2854, 2858, 2862, 2866, 2870, 2874, 2878, 2882, 2886, 2890, 2894, 2898, 2902, 2906, 291

Opd ✓

A third set of the same specimens of  
 white, but only 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850,



H. G. J. V. 12

YOSEMITE, CAL.

3. Settled between with by at  
pl. 20 by south block W.7"

[illegible]

H. G. DYAR

YOSEMITE, CAL

[illegible][illegible]

YOSEMITE, CAL.

YOSEMITE, CAL.

Calc.	.6	1.0	1.6	2.8	4.4
Found	—	—	1.6	2.8, 2.9, 3.3	4.2

224

[illegible]



anal plate, pale short, whitish  
a darker line & dorsal ones  
very small as in *truncatus*

1. I have had 2.8 mm York down instead  
of 2.0 mm. I'll correct the value.

9<sup>th</sup> Nov 2017, 28<sup>th</sup> Nov 2017, 1<sup>st</sup> Dec 2017

Uddhaya <sup>arrived</sup> ~~at~~ the White

1. The first part of the paper is devoted to a discussion of the
 general principles of the theory of the structure of the
 crystal lattice.

[illegible]

There is no other place, where the same  
condition is observed, as in the case of the  
first.

...the ... ..

grows with microsmum yellow blo. later

a small mortar, being part of  
a large, which I saw at the house

Miller, Ed, 1901, 1902, 1903, 1904, 1905, 1906, 1907, 1908, 1909, 1910, 1911, 1912, 1913, 1914, 1915, 1916, 1917, 1918, 1919, 1920, 1921, 1922, 1923, 1924, 1925, 1926, 1927, 1928, 1929, 1930, 1931, 1932, 1933, 1934, 1935, 1936, 1937, 1938, 1939, 1940, 1941, 1942, 1943, 1944, 1945, 1946, 1947, 1948, 1949, 1950, 1951, 1952, 1953, 1954, 1955, 1956, 1957, 1958, 1959, 1960, 1961, 1962, 1963, 1964, 1965, 1966, 1967, 1968, 1969, 1970, 1971, 1972, 1973, 1974, 1975, 1976, 1977, 1978, 1979, 1980, 1981, 1982, 1983, 1984, 1985, 1986, 1987, 1988, 1989, 1990, 1991, 1992, 1993, 1994, 1995, 1996, 1997, 1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 258

as you are in the whole lot of them  
with the exception of one of them  
which is in the lot of one of them

11-17-1907

Eggs (Shell) singly on back (les), 2 on a  
leg remote. laid close to. Skin or  
under a yellow brich. Elliptical  
very flat, the skin thin and soft  
1.4 x .8 x ? leg seems soft and  
supported from of the rib. Skin  
delicate, colorless, covered with veins

London

colate brown lower yellow

11-1-1-1

per, glass bottle ---

very much with driver

Lines bordered toward

shades which are well

11/11/11

*a. p. commutata* m. p. p. p.

1

06  
66

11

1.3.4

very rough  
muddy black

red plate, pale short, white  
a number of small white  
dots on the sides of the  
body and 2 small dark spots on the  
sides of the head.

the whole, mostly 25 to 30 to 40  
long. The head is <sup>small</sup> broad, the  
snout is short, the eyes are  
large and prominent. The  
mouth is wide and the  
lips are thick. The  
gills are small and  
the operculum is small.  
The body is covered with  
small scales. The  
faint yellowish white  
spots on the sides of the  
body are very faint.  
The head is covered with  
small scales. The  
faint yellowish white  
spots on the sides of the  
body are very faint.  
The head is covered with  
small scales. The  
faint yellowish white  
spots on the sides of the  
body are very faint.

225

the body of the fish is  
long and slender. The  
head is small and the  
snout is short. The  
eyes are large and  
prominent. The mouth  
is wide and the lips  
are thick. The gills  
are small and the  
operculum is small.  
The body is covered  
with small scales.  
The faint yellowish  
white spots on the  
sides of the body are  
very faint. The head  
is covered with small  
scales. The faint  
yellowish white spots  
on the sides of the  
body are very faint.



connected by whitish shading

Brown-gray or pale ochraceous brown heavily marked with  
pale scales, lines whitish, often dentate

Palestramonaceous, densely marked with chocolate  
brown, rarely pale, lines bordered towards  
each other by dark shades which are well  
defined in the 3 and predominate in pale specimens

Food plants

willow

oak

wild cherry

bayberry

linden

with hazel

chestnut

beech

americana

stagnans

calce

I

1.0

1.0-1.4

1.4-2.1

2.1-3.0

3.0-4.24

IV

V

VI

8.66-11.65

6.05-8.66

ex 70 (ex 177)

Spiruloides

Little samples (2) Horns exactly as in Enclae querceti  
Lophos. A practically 5 up. Horns 3-5 12 red  
 Aug 31 3.7 3.7 mm. tipped, rest pale yellow, (2)  
 Sep 11 3.8 4.0 " colorless. Pale yellow line along s-d  
 " 2 3.7 4.1 " ridge, festoons up at 3, 4, 5 & 11  
 " 3 4.0 4.6 (tooth) and 12 & encircling d. purplish patches  
 " 4 4.0 (th) 5.0\* " ✓  
 " 6 4.2 e 5.2 e B 3-4 4-5 5-8 8-11 11-12; rest green  
 " 7 4.5 - 5.5 " (2) a little paler in ridge. Spine  
 " 8 5.5 - 5.8 " with black tips, rather delicate.  
 " 9 5.5 " 6.5 (tooth) Skin closely fine deep granula. separated  
 " 10 5.7 (th) 6.5 " spaces 1 & 2 indicated as glandular dots,  
 " 11 6.7 (th) 6.5 (tooth) C large lateral as ill defined hollow, all  
 " 12 7.0 (tooth) 7.8 " obscure. With 2nd. but greenish, eye black  
 " 13 8.5 " 9.0 " mouth brown.  
 " 14 8.2 (mouth) 8.8 " \* horns included ✓  
 " 15 " 9.0 " Stage C 3rd horn indicated 3 4 5 8 11  
 " 16 9.2 " 9. (mouth) Pale dusky reddish purple, just 3  
 " 18 8.8 (tooth) Wormy continues 3-8, last two also as 8-  
 " 19 9.8 " D 12, no caltropes nor end spines.  
 " 20 10.5 " Horn 6-7 moved out a little with 9 line  
 " 21 10.7 " 8 rather longer than 6-7 9, 10. A distinct  
 " 22 Spine green line edge of yellow below  
 in side. 2 broad continuous umbilical  
 broken. Horns 3 4 5 & 12 red, in on also  
 11 and 13 red tipped. Ridge indicated  
 with crimson inside yellow, with  
 central pale d. line. no caltropes.  
Molt of 11 & 18 D. Caltrops patches 6-12 and  
 at top one above (1) 13. Sd yellow band  
 3-12 indicated inwardly on 5, 4, 8, 11, 12  
 dorsum filled in with purple  
 edges darker with straight pale  
 d. line; anterior paired glandular dots with  
 tiny dark center, 4 between 3-4, 4-5 rest as 1 horn.  
 sd dorsals indicated as tiny pale dots, seg. seen  
 on 9 & 10. Long horns red, i.e. 3-5, 8, 11-13, rest yellow  
 largest about 6-7 mm, the shortest round horns  
 Side green, darker below with ridge a broken  
 whitish line along 2. No (2) or 5 its spracle up.  
 A large lat intersp depression seen on 2 last  
 consolidated but not contracted, edge fairly well  
 marked. A large ill defined 5-8 intersp. hollow.  
 Skin watery granular.



# GREEN Spinuloides

Grass Spinuloides on bayberry at  
Scaevola, N.Y. Sept 22 1895!

Lengths Brown & red spinules.

Sept 3 eating	4.7	Green, a yellowish band
" 4 "	5.6	along ① seg. white-bk on
" 5 (in bark)	5.6	3, 4, 5, 8, 11, 12, the culm
⑦ eating	6.5	green space very faint
" 8 "	7.0	purple tinged with trace
" 9 "	7.2	of a white of base. ①
" 10 "	8.	pale - others, not visible
" 11 "	8.7	② L 8-9 region many
" 12 by 12	8.5	colored.
D 13 eating	10.6	③ L 12 seg 6 same but brown
" 14 "	11.5	① on 2 just touched red
" 16 "	11.0	a little pale purplish
" 18 "	11.8	showing in all of patches
" 19 all pale	10.	not separated from pale
		L a grass space. No culm

under Sept 12 - Fifth culm  
patches on ② 6-12, getting  
more brown part. On ③  
large culm patches at base of horn  
in front. Culm green color, Horn ③  
3 reddish, the rest yellow. 2 bands  
purplish, 1st pale, green except  
before, rest by yellow 8 11 & 12,  
a row of white 'intussus' along

① another ridge lined above a  
broken water. Double green 20 to  
30 ridge above. Sides otherwise  
pale green, approaching white  
then directly under fine of water  
greenish. In space above  
2. intensity above faint greenish  
center and then one deep water  
veg. hollows, all defined through  
the above center are smaller  
than their center. The greenish  
center except one in center of  
lateral area (= lateral intensity?)

② above the first ridge.  
Late 5d band almost white,  
purple still green bordered  
Horn yellow except ③



egg solitary on back wild cherry.  
1.4 x .85. Elliptical, flat,  
shiny, transparent. Reti.  
Retic. could not find with  $\frac{1}{2}$   
(opened to hatch)

2563A

Coat of white black Jefferson *Jefferson*  
 Met July 13 1895. Eel, head, do same  
 a black suture between the ridges  
 which approximate at ends. Flat-  
 tened, faintly arched, the ends sub-  
 truncate. Lateral ridge scalloped  
 on the superior. S-V narrow, even,  
 projecting. Translucent green, a  
 pale white suture like on  
 S-d ridge and traces of obscure  
 impressed dot, setae short thick  
 dark. I all close app. on 1st  
 on 1st ridge, in on lateral ridge  
 a fine pale seta represent the  
 1st & V S-V. Tubercles conical, the  
 whole surface of body rather  
 densely covered with small  
 tubules to bases within 1/2 setae.  
 Length 3.6 mm. W. hd 5 ± Hd  
 green, eye black, narrow brown  
 smooth same hd 5 ± Ridge all scalloped  
 the lat. a S-V not very prominent 234

A type hd 7 ± Seen under microscope  
 length 4.3 mm, tail produced quadrate  
 S-d ridge with a distinct white band  
 behind when 4-tail. Lateral ridge  
 projects even with S-V or a trifle be-  
 yond it. D. impressed whitish spots  
 distinct on central axis interrupting  
 the faint green line of d. v. and  
 subventral rounded, squarish (psid?)  
 lateral ridge even.



egg (shell) shiny on back (leaf), 2 on a  
leaf minute. Laid close to vein or  
midrib in yellowish track. Elliptical  
very flat, the skin thin and soft  
1.4 x .8 x ? Egg seems soft and  
supported partly by the rib. Skin  
delicate, colorless, covered with numerous  
irregular subulate white lines.  
These are rather faint, the smooth  
a little elongate in various diameters.

Skin d. & l. x. smooth except for  
the minute irregular clear points  
the surface faintly granular. Sep-  
mentally which is all there is of de-  
pressed areas.

High July 18 (late hatching) Same as appearance  
but more like moth. Skin more densely  
rather granular, the fine lines con-  
spicuous. A lanceolate tail on 12. 5th ridge  
with a yellowish white distinct 3-  
tail. Row of dorsal yellowish dots  
5-9 distinct (5-9). Ridges (1st &  
2nd) finely undulating, from tubercles.  
Setae short distinct, dark. Spiracles white  
at base, light black ventral. 1st &  
2nd areas, skin uniformly densely granular.

~~High July 18~~  
~~High July 18~~  
~~High July 18~~  
Eaten whole leaf July  
20-21. Dispersed areas  
indicates that just  
before the new granular  
translucent green.  
Tentle most yellowish green, no other black.  
Hills (one on back) July 22 - July 24 [Length 7.5]  
2.5 x .8 mm. High July 26 10mm. Hd 1.4 mm. over 1  
and apparent less than 1-2. Length 7.7. July 27

H. 3. L. Y. <sup>copied</sup> 2/5/91.  
 226 = 729  
 YOSEMITE, CAL.

appearance of the normal yellow  
 but the little point of the distal  
 margin of the head is very  
 sparsely to caudal brown. Below  
 this point the head is almost  
 entirely white with dark  
 brown to blackish spots on  
 the sides of the head. The  
 blackish brown below the  
 mouth white, brown on the  
 sides of the head. The  
 whole of the body is  
 covered with reddish  
 brown as yellowish dorsal shades  
 brown dark brown (dorsal yellow shaded  
 as sides & extends with dorsal  
 lateral brown except the least indistinct  
 but strongly marked above with  
 purple shaded

10-11

dorsal brownish yellow  
 brown on the sides of the head  
 brown marked with dark brown  
 a black spot on the side of the  
 the eye brownish points largely black  
 lateral white. The body is  
 greenish brown on the sides  
 of the head. The body is  
 brownish brown except the  
 with black spots on the  
 by a whitish dorsal line. The  
 whitish with a dark purple  
 dorsal line. The body is  
 more extensive & brownish  
 brown, the dorsal line is  
 distinct in 2 or 3 lines brown  
 for 2 or 3 of varying size. The  
 white line is shaded with



H. G. DYAR

YOSEMITE, CAL. 35

Image Set 410 Catlin 323

*Lotysia catenata* (P.B.)

calc 5 18 1.3 2.2 2.3

Long - - - - - 20 3.4

227

227 A

egg like Aspilota (410) but higher and all of apex  
white, slightly shining, expanded, base flat  
1 mm diam, 1.8 high, of the same color. Aspilota  
truncatula J. H. 1st found 1907. Retrolateralis  
warm, red legs and wings obscure,  
head black between the antennae  
joined to base. Head with brownish  
big head, minus legs and notae and  
cubicle it is a speckle. white in black

furrows near the rock  
in the sand near the

totally, the 1000  
south, being in

Heavily eroded  
low, steep hills  
a few ft. tall

1. Color - white  
 2. Size - 1/2" x 1/2"

2. 2. Two body with  
no left side.

placed into white  
not used - please

King and Mrs. J. E. King  
1221 1/2 1st St. N. W.  
Washington, D. C.

Chadwick post road

... ..  
... ..

H. G. DYAR

YOSEMITE, CAL. 36

Imago Sept 30 Cat No 323

*Lortyx cataphracta* (Hb.)

scale 1.2 1.8 1.3 2.2 3.3  
none - - - 2.2 3.3

22

Head and thorax on yellow near the neck  
stage 1.1<sup>mm</sup> and 2.2<sup>mm</sup> Hd and thorax  
slightly depressed ventrally, the lobes  
apex slightly, gently, but it is  
slightly brown having a faint  
the hair darker brown, slender, brown  
Hd. and neck with a brownish  
on each side of the head, brownish  
and widely covering, entire body with  
all the very same as the head, brownish  
thorax, slightly flecked with white  
a white 5th line, with scaling dorsal  
area - I was feeding with ant. on 3  
Pleasanting insect, small, brownish  
stage 3.3<sup>mm</sup> Hd shaped as before, but  
pale brown, the head slightly pinkish  
about, mouth open a no. tenner  
lobes yellow, brown, a few



body as before, feet & claws smooth  
& lacking the flecked appearance of  
very pale testaceous. Olds was just  
a day in its habit.

Egg shell, flat at base, a little more  
at top than bottom, colored like (Hog) and  
Hedgehog on teal ribs. Size 7<sup>mm</sup>  
[The bottom is in the leaf]

all in the leaf

Probably *Nisoides ice line*, Link.  
(See W. H. Edwards, Can. Ent. XMC 98)

H. G. DYAR  
 228  
 YOSEMITE, CAL.  
 Copied 11-12-90

Cerambycid on wood, July 21, 1890  
 less than 1/2 inch long, and somewhat  
 slightly, minutely, elongated, black  
 with brownish dots on sides.

[Cerambycid on wood, July 21, 1890]  
 Length 1.1 mm. W 1.1 mm.  
 Cervical horns. Short, spinose. Tail 5 mm  
 with slightly spined. Body, purple brown  
 over dorsum, more to spiracles, all around  
 on 2-4 & ventrally on 11-13 the next green  
 with centrally a lighter paler space.  
 On 4 & 5 except a dorsal line there, spinose  
 minute, black ringed. Tails dark  
 red brown. Tarsus articulate with  
 whitish & tipped with same color.  
~~the antennae have a white space to ending~~  
 the last plate, subpl, green.  
 on 13, 14 & 15 the same.

Does not have a tail.  
 Antennae 11-segmented, 1st seg. 1.1 mm.  
 2nd seg. 1.1 mm. 3rd seg. 1.1 mm.  
 4th seg. 1.1 mm. 5th seg. 1.1 mm.  
 6th seg. 1.1 mm. 7th seg. 1.1 mm.  
 8th seg. 1.1 mm. 9th seg. 1.1 mm.  
 10th seg. 1.1 mm. 11th seg. 1.1 mm.  
 12th seg. 1.1 mm. 13th seg. 1.1 mm.  
 14th seg. 1.1 mm. 15th seg. 1.1 mm.

C. 7 1.1 1.6 2.4 3.6 7.6  
 found - 11 1.6 2.5 3.6  
 H. G. DYAR  
 YOSEMITE, CAL.

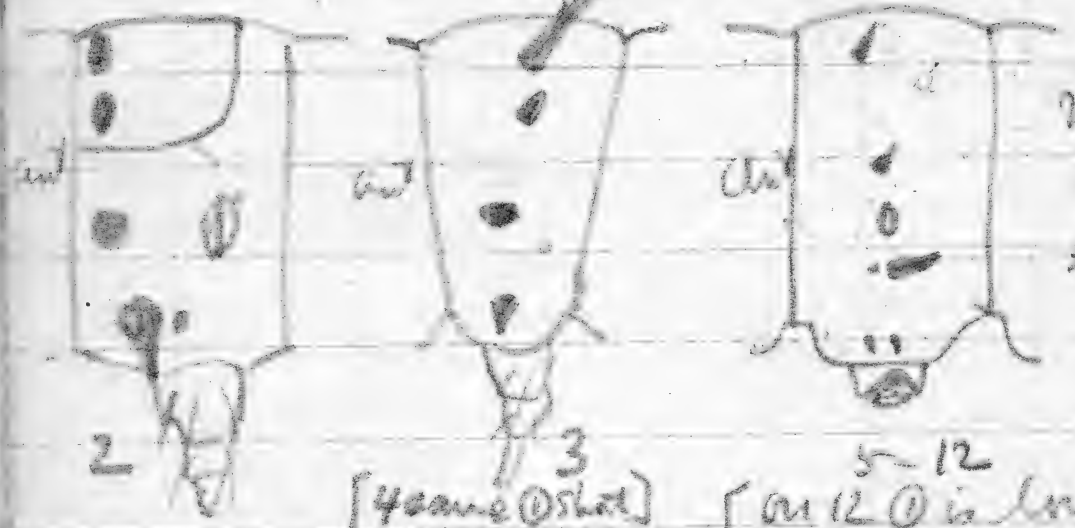
The stage is the same as the last.  
 Length 1.1 mm. W 1.1 mm.  
 Cervical horns. Short, spinose. Tail 5 mm  
 with slightly spined. Body, purple brown  
 over dorsum, more to spiracles, all around  
 on 2-4 & ventrally on 11-13 the next green  
 with centrally a lighter paler space.  
 On 4 & 5 except a dorsal line there, spinose  
 minute, black ringed. Tails dark  
 red brown. Tarsus articulate with  
 whitish & tipped with same color.  
~~the antennae have a white space to ending~~  
 the last plate, subpl, green.  
 on 13, 14 & 15 the same.





1000 ft. high, on a hillside, the  
 ground is a small white  
 spot on the ground. High 42 in.  
 as high as the top of a tree. The  
 ground is a small white spot on the  
 ground. The ground is a small white  
 spot on the ground. The ground is a  
 small white spot on the ground.

(see next page)



[4 same @ shot]

[on 12 ① is larger]

② small, blackish

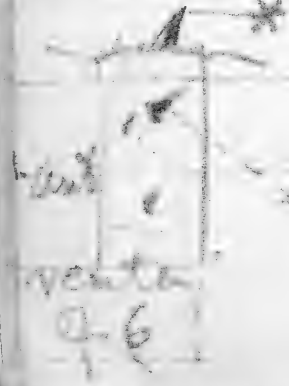
← 13 ① single, ② tiny

③ large ④ ⑤? tiny

iv is it ⑥, ⑦ S-V

⑧ indistinguishable

on 14 ① in and 5 on edge



13

Copied  
 H. G. DYAR  
 11/9/90  
 YOSEMITE, CAL.

with the  
 large  
 of the  
 of the

1000 ft. high, on a hillside, the  
 ground is a small white  
 spot on the ground. High 42 in.  
 as high as the top of a tree. The  
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 ground. The ground is a small white  
 spot on the ground. The ground is a  
 small white spot on the ground.



H. G. DYAR

[illegible][illegible]

1. The first thing I noticed when I stepped  
 out in the morning, the air was cool and  
 the sun was shining just what I needed.  
 I was feeling a bit out of sync, but the  
 morning breeze helped me get back on track.  
 I was feeling a bit out of sync, but the  
 morning breeze helped me get back on track.

234

Section of entire series, May 4, 1892.  
The rock, gray, brown, reticulated with  
black & a curved black band in  
front of the eye & a black band in  
center of head. The color is in  
middle of eye & back of head. The  
body is brown and is a little  
in line of the body. The only  
one for a black color band.

~~24 W 7 mm~~ Imago Aug 22. 1891 at Yosemite Cal  
~~very common, abundant in the woods, foliage, bushes, etc.~~  
~~very common, abundant in the woods, foliage, bushes, etc.~~  
~~very common, abundant in the woods, foliage, bushes, etc.~~  
~~very common, abundant in the woods, foliage, bushes, etc.~~

232

Edge on poplar, K. 5. 1890.

White W2. 6 mm. Head as before the green  
white and yellow & large in 5-d. line  
2-5 3-7th stripe. Stage 1 & 2 found  
the orange dot on each side, <sup>3-9</sup> line  
5-d. line. Horn shining, but ends with  
a green annulation, yellow, conical & black line on top & stage 7 during  
brown long. Black yellowish at base of each side. The feet in 1-4 black  
abdominal segments. 5-9 mm. Stage 12. 1st abd. seg. green covered  
with yellow granulation, a  
black line on top of each side. 1st & 2nd  
short, green. 3rd & 4th black. 5th  
all the 6 segments as a 5-d. line and  
7 oblique lateral line. 8th & 9th  
brown granulated. The feet blackish.  
As before a 5-d. line of each side 5-d 2-5, 7 oblique lateral 1, point 6 to  
last segment. No 3 Ring 12 5-d. line

before, a pale line from index down  
each side of head & sides, granulated  
white W2. 6 mm. Head as before the green  
white and yellow & large in 5-d. line  
2-5 3-7th stripe. Stage 1 & 2 found  
the orange dot on each side, <sup>3-9</sup> line  
5-d. line. Horn shining, but ends with  
a green annulation, yellow, conical & black line on top & stage 7 during  
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with yellow granulation, a  
black line on top of each side. 1st & 2nd  
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all the 6 segments as a 5-d. line and  
7 oblique lateral line. 8th & 9th  
brown granulated. The feet blackish.  
As before a 5-d. line of each side 5-d 2-5, 7 oblique lateral 1, point 6 to  
last segment. No 3 Ring 12 5-d. line



Aug. 2 - 10 to 12 hours & turned on the  
pink, then rose blue, purple, blue  
more white granulation, pink  
and blue, white, green, yellow  
white centrally. Blended blue  
wavy, purple, green, yellow

~~\_\_\_\_\_~~

25. 1909. On <sup>beach</sup> rock 5 ft x 20. Not full  
 A. ... .. Not known but to  
 ... .. I was found  
 ... .. about 1 mile a  
 ... .. with small ... ..  
 ... .. the ... ..  
 ... .. to ... ..  
 ... ..

et al  
Jan 8  
1892

237

*Prunus rotunda*

[illegible]

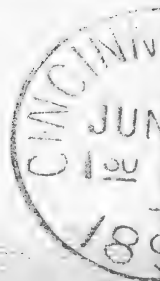


*Acronycta* in *Amelanchier canadensis*. 3rd inst.  
 June 16 '95. Hd. black, large, pale behind.  
 Ant. thickly clothed, all on first 3 segments  
 with light brown ped. Spots on black  
 W. 2.2±. Body greenish white, not very  
 opaque. A broad (ii) d. olive green band,  
 mouth tinged 2-12. Vent. brownish  
 black, white, rather sparse, a few  
 pale 23 d-v. Very not many. Ventrals  
 line white. Later side green, d. band  
 brown with faint red yellow edge.  
 Hd. line about abiding to pinkish in  
 side, not black (cf 492). Later a central  
 reddish d. line in brown band. More bluish  
 green than 528. D. band broad, even, not  
 scalloped. 1st and 2nd insts 13, yellowish faint  
 green & turkey. The rest in center of 1st & 2nd insts  
 leaf and 3rd 2-headed fruit.  
 Molt July 2. Turned into redcliffii. D.  
 line red, turning yellow.

If not called for in 10 days, return to.

Herring-Hall-Marvin Co.

CINCINNATI, O.



Mr Adams House  
Jefferson High







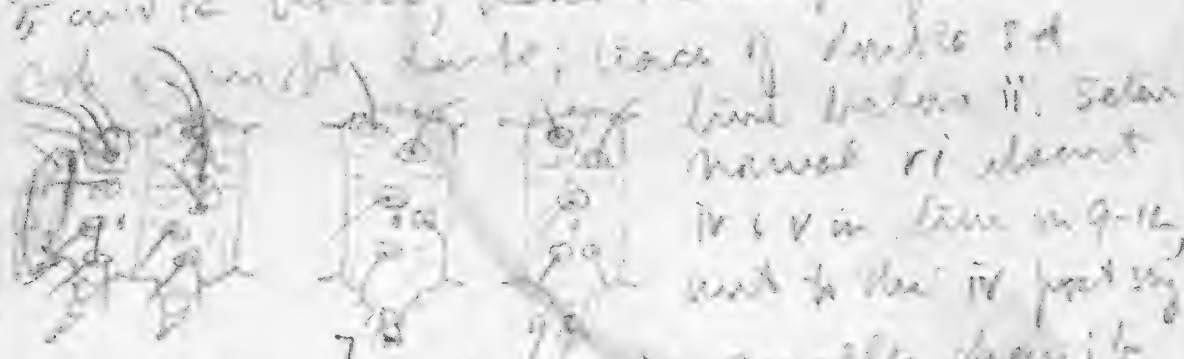
July 1 - 1.2.5 - Like mature red.  
diff. lateral line, greenish, dorsal  
red brown, rest of body 2, 12-13 black.  
Not black spine of lobes but of 1 mm.  
Seta but same yellow. Seta all line  
yellow. Hold on, its head when it is  
July 19 all color by a large maggot.  
The larva is small size and  
is not a larva?







Egg on water leafstem hatch 40±  
 Feb 14. 1896 1st under pile. color  
 pale purplish, black bands of bariae soon  
 showing in water. Reticulation small,  
 very narrow. the cell area rounded.  
 In some lights looks like pile at angles,  
 the pores seem to be short & finely produced.  
 Hatched June 6 Hd. lobes, smooth, shiny  
 shiny black, w. 45 mm. Body pale  
 greenish the warts & a central line of 11  
 5 and 12 brown, hair scanty pale.



Color mostly dark, trace of double sd  
 line below II. Setae  
 normal xi absent  
 iv & v in line in 9-12,  
 and to the iv parting

Setae normal in the one is smaller than 11  
 Body covered with long seticular points. On  
 5 & 12 i slightly enlarged & approximate, a a  
 patch of orange brown. Body really greenish  
 later all shining yellow, warts brown.  
 June 9 very yellow, trace of triple sd line II-III.   
 Molt June 10 Hd. 6  6 warts on 3 & 4!  
 ii present smooth, faint,  
 elongate, warts  
 present, a central

hair crown; spine spine, belly, curved,  
a single 2d hair below, behind it not  
on a wart, no general 2d covering. Sub-  
primaries on thorax not certainly present,  
there is a seta behind vi, but it has no  
tubercle and looks secondary as there is  
also a like one behind v on abdomen  
vi (thorax) several haired, but not surely  
derived from 2 tubercles. it probably is lost,  
even as there is not a distinct crown of hairs.

Molt June 15 Hds 1.3-1.4 (sh hd .75) [See alcobis]

See 234 for marks. 5 c 12 i high large  
apparently small, many in many  
small, more secondary hairs, besides  
abundant fine pile. vi small, skewed  
not as black as others.  
Nerity died but a few left. See black H.H.  
June 20 Hd 2.1 ±

Molt June 25 Hd 3.3 ±

Calc.	.99	.78	1.25	2.14	3.4	$\frac{63}{100}$
Found	.75	.75	1.3	2.1	3.4	



trous. The 5 & 6 the second were  
un-enclosed & covered by a black  
patch. 1 shot, small feathers & all got  
black. a few white brown.

12 elongated. 5. Feet all black  
Stomach 23<sup>rd</sup> 4th 10<sup>th</sup> 12<sup>th</sup> 14<sup>th</sup> 16<sup>th</sup>  
a small 4<sup>th</sup> 10<sup>th</sup> 12<sup>th</sup> 14<sup>th</sup> 16<sup>th</sup>  
the, but in the 4<sup>th</sup> 10<sup>th</sup> 12<sup>th</sup> 14<sup>th</sup> 16<sup>th</sup>  
Body 4<sup>th</sup> 10<sup>th</sup> 12<sup>th</sup> 14<sup>th</sup> 16<sup>th</sup>

to the blackish on the  
ventral side, it was 5-8 again less  
more.

1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. 32. 33. 34. 35. 36. 37. 38. 39. 40. 41. 42. 43. 44. 45. 46. 47. 48. 49. 50. 51. 52. 53. 54. 55. 56. 57. 58. 59. 60. 61. 62. 63. 64. 65. 66. 67. 68. 69. 70. 71. 72. 73. 74. 75. 76. 77. 78. 79. 80. 81. 82. 83. 84. 85. 86. 87. 88. 89. 90. 91. 92. 93. 94. 95. 96. 97. 98. 99. 100. 101. 102. 103. 104. 105. 106. 107. 108. 109. 110. 111. 112. 113. 114. 115. 116. 117. 118. 119. 120. 121. 122. 123. 124. 125. 126. 127. 128. 129. 130. 131. 132. 133. 134. 135. 136. 137. 138. 139. 140. 141. 142. 143. 144. 145. 146. 147. 148. 149. 150. 151. 152. 153. 154. 155. 156. 157. 158. 159. 160. 161. 162. 163. 164. 165. 166. 167. 168. 169. 170. 171. 172. 173. 174. 175. 176. 177. 178. 179. 180. 181. 182. 183. 184. 185. 186. 187. 188. 189. 190. 191. 192. 193. 194. 195. 196. 197. 198. 199. 200. 201. 202. 203. 204. 205. 206. 207. 208. 209. 210. 211. 212. 213. 214. 215. 216. 217. 218. 219. 220. 221. 222. 223. 224. 225. 226. 227. 228. 229. 230. 231. 232. 233. 234. 235. 236. 237. 238. 239. 240. 241. 242. 243. 244. 245. 246. 247. 248. 249. 250. 251. 252. 253. 254. 255. 256. 257. 258. 259. 260. 261. 262. 263. 264. 265. 266. 267. 268. 269. 270. 271. 272. 273. 274. 275. 276. 277. 278. 279. 280. 281. 282. 283. 284. 285. 286. 287. 288. 289. 290. 291. 292. 293. 294. 295. 296. 297. 298. 299. 300. 301. 302. 303. 304. 305. 306. 307. 308. 309. 310. 311. 312. 313. 314. 315. 316. 317. 318. 319. 320. 321. 322. 323. 324. 325. 326. 327. 328. 329. 330. 331. 332. 333. 334. 335. 336. 337. 338. 339. 340. 341. 342. 343. 344. 345. 346. 347. 348. 349. 350. 351. 352. 353. 354. 355. 356. 357. 358. 359. 360. 361. 362. 363. 364. 365. 366. 367. 368. 369. 370. 371. 372. 373. 374. 375. 376. 377. 378. 379. 380. 381. 382. 383. 384. 385. 386. 387. 388. 389. 390. 391. 392. 393. 394. 395. 396. 397. 398. 399. 400. 401. 402. 403. 404. 405. 406. 407. 408. 409. 410. 411. 412. 413. 414. 415. 416. 417. 418. 419. 420. 421. 422. 423. 424. 425. 426. 427. 428. 429. 430. 431. 432. 433. 434. 435. 436. 437. 438. 439. 440. 441. 442. 443. 444. 445. 446. 447. 448. 449. 450. 451. 452. 453. 454. 455. 456. 457. 458. 459. 460. 461. 462. 463. 464. 465. 466. 467. 468. 469. 470. 471. 472. 473. 474. 475. 476. 477. 478. 479. 480. 481. 482. 483. 484. 485. 486. 487. 488. 489. 490. 491. 492. 493. 494. 495. 496. 497. 498. 499. 500. 501. 502. 503. 504. 505. 506. 507. 508. 509. 510. 511. 512. 513. 514. 515. 516. 517. 518. 519. 520. 521. 522. 523. 524. 525. 526. 527. 528. 529. 530. 531. 532. 533. 534. 535. 536. 537. 538. 539. 540. 541. 542. 543. 544. 545. 546. 547. 548. 549. 550. 551. 552. 553. 554. 555. 556. 557. 558. 559. 560. 561. 562. 563. 564. 565. 566. 567. 568. 569. 570. 571. 572. 573. 574. 575. 576. 577. 578. 579. 580. 581. 582. 583. 584. 585. 586. 587. 588. 589. 590. 591. 592. 593. 594. 595. 596. 597. 598. 599. 600. 601. 602. 603. 604. 605. 606. 607. 608. 609. 610. 611. 612. 613. 614. 615. 616. 617. 618. 619. 620. 621. 622. 623. 624. 625. 626. 627. 628. 629. 630. 631. 632. 633. 634. 635. 636. 637. 638. 639. 640. 641. 642. 643. 644. 645. 646. 647. 648. 649. 650. 651. 652. 653. 654. 655. 656. 657. 658. 659. 660. 661. 662. 663. 664. 665. 666. 667. 668. 669. 670. 671. 672. 673. 674. 675. 676. 677. 678. 679. 680. 681. 682. 683. 684. 685. 686. 687. 688. 689. 690. 691. 692. 693. 694. 695. 696. 697. 698. 699. 700. 701. 702. 703. 704. 705. 706. 707. 708. 709. 710. 711. 712. 713. 714. 715. 716. 717. 718. 719. 720. 721. 722. 723. 724. 725. 726. 727. 728. 729. 730. 731. 732. 733. 734. 735. 736. 737. 738. 739. 740. 741. 742. 743. 744. 745. 746. 747. 748. 749. 750. 751. 752. 753. 754. 755. 756. 757. 758. 759. 760. 761. 762. 763. 764. 765. 766. 767. 768. 769. 770. 771. 772. 773. 774. 775. 776. 777. 778. 779. 780. 781. 782. 783. 784. 785. 786. 787. 788. 789. 790. 791. 792. 793. 794. 795. 796. 797. 798. 799. 800. 801. 802. 803. 804. 805. 806. 807. 808. 809. 810. 811. 812. 813. 814. 815. 816. 817. 818. 819. 820. 821. 822. 823. 824. 825. 826. 827. 828. 829. 830. 831. 832. 833. 834. 835. 836. 837. 838. 839. 840.

Geothlypis trichas var

Capital  
8/15/90 DYAN  
285

YOSEMITE, CAL.

ROSE HILL, CAL.  
 Mon, White Co. Aug. 19, 1903  
 A fine high black loess hill, some 100  
 feet high, <sup>height</sup> <sup>at</sup> base of hill  
 where the water runs down  
 a small stream at base of hill  
 being fine sand & gravel.  
 The hill is composed of  
 a fine sand & gravel, <sup>in upper part</sup>  
 with a few small stones. W. of hill  
 a small stream runs down  
 to the river. The hill is  
 made of the interlocking of  
 small pebbles & sand. The  
 top is flat & the sides are  
 steep. The top is covered with  
 a few small trees & shrubs.

H. G. DYAR

YOSEMITE, CAL

[illegible]





H. G. DYAR

YOSEMITE, CAL.

[illegible]

(b) Agave, etc. and a  
 small leafy plant, 2 or 3 inches high  
 the other, called etc. the leaves are short,  
 more like 2 or 3 inches long. The plant  
 has long roots etc. etc. etc. etc. etc.  
 the leaves are small, etc. etc. etc. etc.  
 something, in order of 2 or 3 inches long  
 closely etc. etc. etc. etc. etc. etc.  
 leaves are small etc. etc. etc. etc.  
 at 2 or 3 inches long etc. etc. etc.  
 and the etc. etc. etc. etc. etc. etc.

at base of the lateral system  
where, in some places, the surface is  
yellow, but the interior is brownish  
yellow or pinkish. Evidently the material  
is the same as the rest of the block.

1. *Adiantum* sp. (fern)  
 2. *Asplenium* sp. (fern)  
 3. *Polypodium* sp. (fern)  
 4. *Marattia* sp. (fern)  
 5. *Psaronius* sp. (fern)  
 6. *Phlegmaria* sp. (fern)  
 7. *Phlegmaria* sp. (fern)  
 8. *Phlegmaria* sp. (fern)  
 9. *Phlegmaria* sp. (fern)  
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 98. *Phlegmaria* sp. (fern)  
 99. *Phlegmaria* sp. (fern)  
 100. *Phlegmaria* sp. (fern)

F. G. 100

Copy 9/13/90

YOBEMITE, CAL.

[illegible][illegible]

English at all places where  
the people are gathered.  
The first place I went to was  
the school, then the church,  
and the store.

H. G. DYAR

YOSEMITE, CALIF.

on a narrow N. & S. of line. vertex

1900-1901

July yellow bird. (1901, 1902, 1903)

[illegible]

He has been very kind and has given

almost white to pink, yellow tinged

Yr 7 3. Not higher than in the same

Give a little to the poor.

late last season

*[Faint handwritten text]*

Washed green, dark green, light green

There but the night comes the stars

...the ... ..

1915-1916. 1917-1918. 1919-1920. 1921-1922. 1923-1924. 1925-1926. 1927-1928. 1929-1930. 1931-1932. 1933-1934. 1935-1936. 1937-1938. 1939-1940. 1941-1942. 1943-1944. 1945-1946. 1947-1948. 1949-1950. 1951-1952. 1953-1954. 1955-1956. 1957-1958. 1959-1960. 1961-1962. 1963-1964. 1965-1966. 1967-1968. 1969-1970. 1971-1972. 1973-1974. 1975-1976. 1977-1978. 1979-1980. 1981-1982. 1983-1984. 1985-1986. 1987-1988. 1989-1990. 1991-1992. 1993-1994. 1995-1996. 1997-1998. 1999-2000. 2001-2002. 2003-2004. 2005-2006. 2007-2008. 2009-2010. 2011-2012. 2013-2014. 2015-2016. 2017-2018. 2019-2020. 2021-2022. 2023-2024. 2025-2026. 2027-2028. 2029-2030. 2031-2032. 2033-2034. 2035-2036. 2037-2038. 2039-2040. 2041-2042. 2043-2044. 2045-2046. 2047-2048. 2049-2050. 2051-2052. 2053-2054. 2055-2056. 2057-2058. 2059-2060. 2061-2062. 2063-2064. 2065-2066. 2067-2068. 2069-2070. 2071-2072. 2073-2074. 2075-2076. 2077-2078. 2079-2080. 2081-2082. 2083-2084. 2085-2086. 2087-2088. 2089-2090. 2091-2092. 2093-2094. 2095-2096. 2097-2098. 2099-2100. 2101-2102. 2103-2104. 2105-2106. 2107-2108. 2109-2110. 2111-2112. 2113-2114. 2115-2116. 2117-2118. 2119-2120. 2121-2122. 2123-2124. 2125-2126. 2127-2128. 2129-2130. 2131-2132. 2133-2134. 2135-2136. 2137-2138. 2139-2140. 2141-2142. 2143-2144. 2145-2146. 2147-2148. 2149-2150. 2151-2152. 2153-2154. 2155-2156. 2157-2158. 2159-2160. 2161-2162. 2163-2164. 2165-2166. 2167-2168. 2169-2170. 2171-2172. 2173-2174. 2175-2176. 2177-2178. 2179-2180. 2181-2182. 2183-2184. 2185-2186. 2187-2188. 2189-2190. 2191-2192. 2193-2194. 2195-2196. 2197-2198. 2199-2200. 2201-2202. 2203-2204. 2205-2206. 2207-2208. 2209-2210. 2211-2212. 2213-2214. 2215-2216. 2217-2218. 2219-2220. 2221-2222. 2223-2224. 2225-2226. 2227-2228. 2229-2230. 2231-2232. 2233-2234. 2235-2236. 2237-2238. 2239-2240. 2241-2242. 2243-2244. 2245-2246. 2247-2248. 2249-2250. 2251-2252. 2253-2254. 2255-2256. 2257-2258. 2259-2260. 2261-2262. 2263-2264. 2265-2266. 2267-2268. 2269-2270. 2271-2272. 2273-2274. 2275-2276. 2277-2278. 2279-2280. 2281-2282. 2283-2284. 2285-2286. 2287-2288. 2289-2290. 2291-2292. 2293-2294. 2295-2296. 2297-2298. 2299-2300. 2301-2302. 2303-2304. 2305-2306. 2307-2308. 2309-2310. 2311-2312. 2313-2314. 2315-2316. 2317-2318. 2319-2320. 2321-2322. 2323-2324. 2325-2326. 2327-2328. 2329-2330. 2331-2332. 2333-2334. 2335-2336. 2337-2338. 2339-2340. 2341-2342. 2343-2344. 2345-2346. 2347-2348. 2349-2350. 2351-2352. 2353-2354. 2355-2356. 2357-2358. 2359-2360. 2361-2362. 2363-2364. 2365-2366. 2367-2368. 2369-2370. 2371-2372. 2373-2374. 2375-2376. 2377-2378. 2379-2380. 2381-2382. 2383-2384. 2385-2386. 2387-2388. 2389-2390. 2391-2392. 2393-2394. 2395-2396. 2397-2398. 2399-2400. 2401-2402. 2403-2404. 2405-2406. 2407-2408. 2409-2410. 2411-2412. 2413-2414. 2415-2416. 2417-2418. 2419-2420. 2421-2422. 2423-2424. 2425-2426. 2427-2428. 2429-2430. 2431-2432. 2433-2434. 2435-2436. 2437-2438. 2439-2440. 2441-2442. 2443-2444. 2445-2446. 2447-2448. 2449-2450. 2451-2452. 2453-2454. 2455-2456. 2457-2458. 2459-2460. 2461-2462. 2463-2464. 2465-2466. 2467-2468. 2469-2470. 2471-2472. 2473-2474. 2475-2476. 2477-2478. 2479-2480. 2481-2482. 2483-2484. 2485-2486. 2487-2488. 2489-2490. 2491-2492. 2493-2494. 2495-2496. 2497-2498. 2499-2500. 2501-2502. 2503-2504. 2505-2506. 2507-2508. 2509-2510. 2511-2512. 2513-2514. 2515-2516. 2517-2518. 2519-2520. 2521-2522. 2523-2524. 2525-2526. 2527-2528. 2529-2530. 2531-2532. 2533-2534. 2535-2536. 2537-2538. 2539-2540. 2541-2542. 2543-2544. 2545-2546. 2547-2548. 2549-2550. 2551-2552. 2553-2554. 2555-2556. 2557-2558. 2559-2560. 2561-2562. 2563-2564. 2565-2566. 2567-2568. 2569-2570. 2571-2572. 2573-2574. 2575-2576. 2577-2578. 2579-2580. 2581-2582. 2583-2584. 2585-2586. 2587-2588. 2589-2590. 2591-2592. 2593-2594. 2595-2596. 2597-2598. 2599-2600. 2601-2602. 2603-2604. 2605-2606. 2607-2608. 2609-2610. 2611-2612. 2613-2614. 2615-2616. 2617-2618. 2619-2620. 2621-2622. 2623-2624. 2625-2626. 2627-2628. 2629-2630. 2631-2632. 2633-2634. 2635-2636. 2637-2638. 2639-2640. 2641-2642. 2643-2644. 2645-2646. 2647-2648. 2649-2650. 2651-2652. 2653-2654. 2655-2656. 2657-2658. 26

Director H. A. G. in the presence

color. Yellow. Blackish when dry.

Since I am contented, I will let you know.

• begin by considering  $\Delta f$  on  $\mathbb{R}^n$

need, down to the level of the ground, to the  
surface of the water, the water, the

Has capital in this, doesn't that a fact

long since overhauled the head (1891)

distinctly lateral in the lower end

water except as along edge of creek  
be still, and move the boat to the stream.

Control of the ... ..  
... ..

with all the best of things  
in a healthy & vigorous state

7/10/44 4.24 Hd as before. (1000 ft. 1000 ft.)

Amount, containing 1000 lbs. of No. 31  
Shells, Black & Natural, 1000 lbs.

After a brief absence, there has been a  
renewal of interest in the subject.

de la que se trata, y de la que se trata de un ejemplo de un  
de la que se trata. C. de la que se trata de un ejemplo de un

plate black or part of same. The <sup>ventral</sup> side of  
anterior plate blackish brown. Anterior margin of eye

repeatedly I told you that we were in a position  
which was not to be disturbed.

1. The first part of the paper is devoted to a review of the literature on the topic. It starts with a general introduction to the field, followed by a detailed discussion of the various methods used in the studies. The second part of the paper presents the results of the experiments. It begins with a description of the experimental setup, followed by a presentation of the data and a discussion of the findings. The third part of the paper discusses the implications of the results and suggests directions for future research. The paper concludes with a summary of the main points and a list of references.

and the first time I saw it.

1891



H. G. G. G. G.

YOSEMITE, CAL.

Dec 15 '12 I mounted a few moths before the day when we have been forced the slopes are continuous, in the plains along 1 1/2 miles from the coast where are great quantities of the same but the larvae are not there during the winter. In the mountains the larvae are not at all abundant during the winter.

[illegible]

YOSEMITE, CAL

Yosemite, CAL.











Deck (Delapue) Jan 25 1997 3♀ 1♂ all fine  
Aphidius triguttatus - 16, - 94

239 (cf 210) *noisy*

[illegible]

(See BB 468)

240 700 1000 1200 1400 1600 1800 2000 2200 2400 2600 2800 3000 3200 3400 3600 3800 4000 4200 4400 4600 4800 5000 5200 5400 5600 5800 6000 6200 6400 6600 6800 7000 7200 7400 7600 7800 8000 8200 8400 8600 8800 9000 9200 9400 9600 9800 10000

[illegible]

Beck (Delphinus) June 25 1897 3915 all from  
Cyrtodactylus - 16. - 44

239 (Cf 210) 100-2000

Linn. v. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. 32. 33. 34. 35. 36. 37. 38. 39. 40. 41. 42. 43. 44. 45. 46. 47. 48. 49. 50. 51. 52. 53. 54. 55. 56. 57. 58. 59. 60. 61. 62. 63. 64. 65. 66. 67. 68. 69. 70. 71. 72. 73. 74. 75. 76. 77. 78. 79. 80. 81. 82. 83. 84. 85. 86. 87. 88. 89. 90. 91. 92. 93. 94. 95. 96. 97. 98. 99. 100. 101. 102. 103. 104. 105. 106. 107. 108. 109. 110. 111. 112. 113. 114. 115. 116. 117. 118. 119. 120. 121. 122. 123. 124. 125. 126. 127. 128. 129. 130. 131. 132. 133. 134. 135. 136. 137. 138. 139. 140. 141. 142. 143. 144. 145. 146. 147. 148. 149. 150. 151. 152. 153. 154. 155. 156. 157. 158. 159. 160. 161. 162. 163. 164. 165. 166. 167. 168. 169. 170. 171. 172. 173. 174. 175. 176. 177. 178. 179. 180. 181. 182. 183. 184. 185. 186. 187. 188. 189. 190. 191. 192. 193. 194. 195. 196. 197. 198. 199. 200. 201. 202. 203. 204. 205. 206. 207. 208. 209. 210. 211. 212. 213. 214. 215. 216. 217. 218. 219. 220. 221. 222. 223. 224. 225. 226. 227. 228. 229. 230. 231. 232. 233. 234. 235. 236. 237. 238. 239. 240. 241. 242. 243. 244. 245. 246. 247. 248. 249. 250. 251. 252. 253. 254. 255. 256. 257. 258. 259. 260. 261. 262. 263. 264. 265. 266. 267. 268. 269. 270. 271. 272. 273. 274. 275. 276. 277. 278. 279. 280. 281. 282. 283. 284. 285. 286. 287. 288. 289. 290. 291. 292. 293. 294. 295. 296. 297. 298. 299. 300. 301. 302. 303. 304. 305. 306. 307. 308. 309. 310. 311. 312. 313. 314. 315. 316. 317. 318. 319. 320. 321. 322. 323. 324. 325. 326. 327. 328. 329. 330. 331. 332. 333. 334. 335. 336. 337. 338. 339. 340. 341. 342. 343. 344. 345. 346. 347. 348. 349. 350. 351. 352. 353. 354. 355. 356. 357. 358. 359. 360. 361. 362. 363. 364. 365. 366. 367. 368. 369. 370. 371. 372. 373. 374. 375. 376. 377. 378. 379. 380. 381. 382. 383. 384. 385. 386. 387. 388. 389. 390. 391. 392. 393. 394. 395. 396. 397. 398. 399. 400. 401. 402. 403. 404. 405. 406. 407. 408. 409. 410. 411. 412. 413. 414. 415. 416. 417. 418. 419. 420. 421. 422. 423. 424. 425. 426. 427. 428. 429. 430. 431. 432. 433. 434. 435. 436. 437. 438. 439. 440. 441. 442. 443. 444. 445. 446. 447. 448. 449. 450. 451. 452. 453. 454. 455. 456. 457. 458. 459. 460. 461. 462. 463. 464. 465. 466. 467. 468. 469. 470. 471. 472. 473. 474. 475. 476. 477. 478. 479. 480. 481. 482. 483. 484. 485. 486. 487. 488. 489. 490. 491. 492. 493. 494. 495. 496. 497. 498. 499. 500. 501. 502. 503. 504. 505. 506. 507. 508. 509. 510. 511. 512. 513. 514. 515. 516. 517. 518. 519. 520. 521. 522. 523. 524. 525. 526. 527. 528. 529. 530. 531. 532. 533. 534. 535. 536. 537. 538. 539. 540. 541. 542. 543. 544. 545. 546. 547. 548. 549. 550. 551. 552. 553. 554. 555. 556. 557. 558. 559. 560. 561. 562. 563. 564. 565. 566. 567. 568. 569. 570. 571. 572. 573. 574. 575. 576. 577. 578. 579. 580. 581. 582. 583. 584. 585. 586. 587. 588. 589. 590. 591. 592. 593. 594. 595. 596. 597. 598. 599. 600. 601. 602. 603. 604. 605. 606. 607. 608. 609. 610. 611. 612. 613. 614. 615. 616. 617. 618. 619. 620. 621. 622. 623. 624. 625. 626. 627. 628. 629. 630. 631. 632. 633. 634. 635. 636. 637. 638. 639. 640. 641. 642. 643. 644. 645. 646. 647. 648. 649. 650. 651. 652. 653. 654. 655. 656. 657. 658. 659. 660. 661. 662. 663. 664. 665. 666. 667. 668. 669. 670. 671. 672. 673. 674. 675. 676. 677. 678. 679. 680. 681. 682. 683. 684. 685. 686. 687. 688. 689. 690. 691. 692. 693. 694. 695. 696. 697. 698. 699. 700. 701. 702. 703. 704. 705. 706. 707. 708. 709. 710. 711. 712. 713. 714. 715. 716. 717. 718. 719. 720. 721. 722. 723. 724. 725. 726. 727. 728. 729. 730. 731. 732. 733. 734. 735. 736. 737. 738. 739. 740. 741. 742. 743. 744. 745. 746. 747. 748. 749. 750. 751. 752. 753. 754. 755. 756. 757. 758. 759. 760. 761. 762. 763. 764. 765. 766. 767. 768. 769. 770. 771. 772. 773. 774. 775. 776. 777. 778. 779. 780. 781. 782. 783. 784. 785. 786. 787. 788. 789. 790. 791. 792. 793. 794. 795. 796. 797. 798. 799. 800. 801. 802. 803. 804. 805. 806. 807. 808. 809. 810. 811. 812. 813. 814. 815. 816. 817. 818. 819. 820. 821. 822. 823. 824. 825. 826. 827. 828. 829. 830. 831. 832. 833. 834. 835. 836. 837. 838. 839. 840. 841. 842. 843. 844. 8

(See BB 408)

240 Ton and 1/2 ton

[illegible]

Book copy 500th Anniversary 1820

White Paper 12 x 9 inches

Embossed with gold

For the 500th Anniversary

of the City of New York

to the Mayor of the City

of New York

the City of New York

the City of New York

the City of New York

the City of New York





marked. Sol tubercles absent, setae arising from the ridge, 2 dark stiff hairs with and 2<sup>nd</sup> setae. On  $\odot$  still low rounded tubercles with some 2<sup>nd</sup> setae. Skin dense of minute granules, slightly conic. Hair a yellow line along  $\odot$  2-13, not going to sides and. A dotted of small faint lateral on 1 whitish dots, intense. Ethersome green [draw line on  $\odot$  or right edge of 3 or 5x.] Hd. 5 pale eye black mouth brown with dark center. legs as if greenish white. A dark green line above and below  $\odot$ . Skin in  $\odot$  faint.

Metathorax ridges brown, not tuberculate. Skin largely closely setae granula. the granula large, conic. hair large along  $\odot$  but not setiform. Spines of  $\odot$  &  $\odot$  black, from the ridge. Dorsal intensely red ag, almost belated ag, large red intense, ridge ag, a broad intense, white dots the 2 largest  $\odot$  &  $\odot$  dark intense, all smoother than skin, granula lacking. but not for small space, not smooth, not sharp edged, black. Body slightly tail quadrate. <sup>prothorax</sup> prothorax & upper 1/2 of 1st x. 5/8 curved, brown & green, a broad yellow

line of black in some cases with 2 or three white. white only on 1st x. 1.1 x .6, with white. [draw line as usual] line  $\odot$  2-13 edged dark above.  $\odot$  the other no dots. and below

Abdomen  $\odot$  2-13 edged dark above.  $\odot$  the other no dots. and below

Stomach d. sp. yellowish greenish brown. Sides decidedly whitish green

1st pair whitish yellow, broad edged. 2nd pair like 1st, no setae, granula. [Got one July 29 3.30 by side] no line on 2,  $\odot$  dark edged both sides.

Other Hd 1.1 x .6. 1st pair black mouth brown. 2nd pair black mouth brown. 3rd pair black mouth brown. 4th pair black mouth brown. 5th pair black mouth brown. 6th pair black mouth brown. 7th pair black mouth brown. 8th pair black mouth brown. 9th pair black mouth brown. 10th pair black mouth brown. 11th pair black mouth brown. 12th pair black mouth brown. 13th pair black mouth brown. 14th pair black mouth brown. 15th pair black mouth brown. 16th pair black mouth brown. 17th pair black mouth brown. 18th pair black mouth brown. 19th pair black mouth brown. 20th pair black mouth brown. 21st pair black mouth brown. 22nd pair black mouth brown. 23rd pair black mouth brown. 24th pair black mouth brown. 25th pair black mouth brown. 26th pair black mouth brown. 27th pair black mouth brown. 28th pair black mouth brown. 29th pair black mouth brown. 30th pair black mouth brown. 31st pair black mouth brown. 32nd pair black mouth brown. 33rd pair black mouth brown. 34th pair black mouth brown. 35th pair black mouth brown. 36th pair black mouth brown. 37th pair black mouth brown. 38th pair black mouth brown. 39th pair black mouth brown. 40th pair black mouth brown. 41st pair black mouth brown. 42nd pair black mouth brown. 43rd pair black mouth brown. 44th pair black mouth brown. 45th pair black mouth brown. 46th pair black mouth brown. 47th pair black mouth brown. 48th pair black mouth brown. 49th pair black mouth brown. 50th pair black mouth brown. 51st pair black mouth brown. 52nd pair black mouth brown. 53rd pair black mouth brown. 54th pair black mouth brown. 55th pair black mouth brown. 56th pair black mouth brown. 57th pair black mouth brown. 58th pair black mouth brown. 59th pair black mouth brown. 60th pair black mouth brown. 61st pair black mouth brown. 62nd pair black mouth brown. 63rd pair black mouth brown. 64th pair black mouth brown. 65th pair black mouth brown. 66th pair black mouth brown. 67th pair black mouth brown. 68th pair black mouth brown. 69th pair black mouth brown. 70th pair black mouth brown. 71st pair black mouth brown. 72nd pair black mouth brown. 73rd pair black mouth brown. 74th pair black mouth brown. 75th pair black mouth brown. 76th pair black mouth brown. 77th pair black mouth brown. 78th pair black mouth brown. 79th pair black mouth brown. 80th pair black mouth brown. 81st pair black mouth brown. 82nd pair black mouth brown. 83rd pair black mouth brown. 84th pair black mouth brown. 85th pair black mouth brown. 86th pair black mouth brown. 87th pair black mouth brown. 88th pair black mouth brown. 89th pair black mouth brown. 90th pair black mouth brown. 91st pair black mouth brown. 92nd pair black mouth brown. 93rd pair black mouth brown. 94th pair black mouth brown. 95th pair black mouth brown. 96th pair black mouth brown. 97th pair black mouth brown. 98th pair black mouth brown. 99th pair black mouth brown. 100th pair black mouth brown.







[illegible]

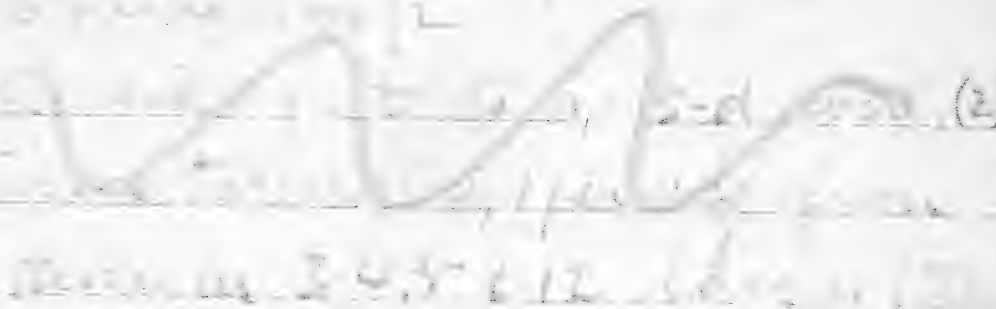
15. 25 mm, Wd  $\frac{1}{2}$  12; weight  
 12.5 mm. The base is  
 greenish yellow, with a  
 blackish brown spot on the  
 base of black wings. The  
 base of the wings is greenish.  
 Length 7.6 mm, 1891. ♂

Lucas Wright

Mar 15 '94

[illegible]

2



(2)  
 1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. 32. 33. 34. 35. 36. 37. 38. 39. 40. 41. 42. 43. 44. 45. 46. 47. 48. 49. 50. 51. 52. 53. 54. 55. 56. 57. 58. 59. 60. 61. 62. 63. 64. 65. 66. 67. 68. 69. 70. 71. 72. 73. 74. 75. 76. 77. 78. 79. 80. 81. 82. 83. 84. 85. 86. 87. 88. 89. 90. 91. 92. 93. 94. 95. 96. 97. 98. 99. 100.

...had faint patch of ...

# RED *Sp. ...*

On *Nyssa* (one pair) at Fort Lee found these  
 A Ordinary. No red except bases 3-5, 8, 11-12 ①  
 and on 3 ②. Sides colorless & pale in between  
 yellow line along ②  
 B Horn all red 3-13 ① and 2 ②. Some yellow  
 shading, in lat. space & line along ② more  
 continuous. Sd band dark yellow.  
 C Horn all red as above & a ... stripe  
 connecting these bases 3-12, not ...  
 the dorsal space of the ... Purple  
 marks with a concave edge and a  
 bluish ... band ...  
 dorsal space shading into the ...  
 red anteriorly. Below it ...  
 whitish shading. Line along ② ...  
 In one constriction of d. purple band  
 very circumscribed in the ... shaded ...  
 has much less yellow. Both with callus.



(2)  
 243 A. Like H. ...  
 243 B. ...  
 243 C. ...  
 243 D. ...  
 243 E. ...  
 243 F. ...  
 243 G. ...  
 243 H. ...  
 243 I. ...  
 243 J. ...  
 243 K. ...  
 243 L. ...  
 243 M. ...  
 243 N. ...  
 243 O. ...  
 243 P. ...  
 243 Q. ...  
 243 R. ...  
 243 S. ...  
 243 T. ...  
 243 U. ...  
 243 V. ...  
 243 W. ...  
 243 X. ...  
 243 Y. ...  
 243 Z. ...

243 A. Like H. ...  
 243 B. ...  
 243 C. ...  
 243 D. ...  
 243 E. ...  
 243 F. ...  
 243 G. ...  
 243 H. ...  
 243 I. ...  
 243 J. ...  
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 243 O. ...  
 243 P. ...  
 243 Q. ...  
 243 R. ...  
 243 S. ...  
 243 T. ...  
 243 U. ...  
 243 V. ...  
 243 W. ...  
 243 X. ...  
 243 Y. ...  
 243 Z. ...

## RED Spin. studies

On Nyssa (sanguinea) at Fort Lee found these  
A Ordinary. No red except bases 3-5, 8, 11-12 ①  
and also 3 ②. Sides colorless & green & broken  
yellow line along ②

B Horn. all red 3-13 ① and 3 ②. Some of the  
shading in lat. space & line along ② very  
continuous. Sd band dark red line.

C Horn. red as above & a narrow orange stripe  
connecting the bases 3-12, and up to  
the dorsal space, the yellow. Purple  
markings with a narrow edge and a  
blurred irregular crimson band in the  
dorsal space shading into the red  
anteriorly. Below it reddish in  
whitish shading. Line along ② brown  
In one construction of d. purple band  
very considerable in the vth. slightly the  
line much less yellow. Both pale castings

lengths 10.5, 10.4 mm



3-16-94

14 8 points (4744) The 5th ridge  
on 7 E 1/2 S 1/2 W. It will be  
marked with a black \* on the map.

Color green, a large, very dark green with  
a few small yellow spots. 10. ✓

[illegible]

Off at 11:00 AM. \*25

(Lachinas came out of it)

See 554 in your class.

|             | I   | II      | III   | IV  | V   | VI  |
|-------------|-----|---------|-------|-----|-----|-----|
| Length (cm) | 1.4 | 2.1     | 3     | 4.3 | 5.1 | 7.1 |
| n           | 1   | 4.5-2.2 | 2.4-3 |     |     | 2.6 |

10. 10.10.10

1. 2. 3. 4. 5.

H 7 G 15 D 24 82

YOSEMITE, CAL.

copied  
10/5/90

Reagan to appear for 'coon bet. leaves Oct 6.

*[Faint handwritten notes visible through the paper]*

44475 Jan 29, 1991 9  
H. G. DYAR

YOSEMITE

Yosemite, CALIF.





From the 24th of July, 1891, I have been
 on 7 & 8 at H. O. 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850,

YOSEMITE, CAL.

to about 10-12 of which uniform  
white, striated at surface, hard  
as steel, white on 1, considerably  
colored on 11, exposed on 2 to  
3 and 4, 5 and 6, 7 and 8, 9 and 10  
and 11, 12 and 13, 14 and 15, 16 and 17, 18 and 19, 20 and 21, 22 and 23, 24 and 25, 26 and 27, 28 and 29, 30 and 31, 32 and 33, 34 and 35, 36 and 37, 38 and 39, 40 and 41, 42 and 43, 44 and 45, 46 and 47, 48 and 49, 50 and 51, 52 and 53, 54 and 55, 56 and 57, 58 and 59, 60 and 61, 62 and 63, 64 and 65, 66 and 67, 68 and 69, 70 and 71, 72 and 73, 74 and 75, 76 and 77, 78 and 79, 80 and 81, 82 and 83, 84 and 85, 86 and 87, 88 and 89, 90 and 91, 92 and 93, 94 and 95, 96 and 97, 98 and 99, 100 and 101, 102 and 103, 104 and 105, 106 and 107, 108 and 109, 110 and 111, 112 and 113, 114 and 115, 116 and 117, 118 and 119, 120 and 121, 122 and 123, 124 and 125, 126 and 127, 128 and 129, 130 and 131, 132 and 133, 134 and 135, 136 and 137, 138 and 139, 140 and 141, 142 and 143, 144 and 145, 146 and 147, 148 and 149, 150 and 151, 152 and 153, 154 and 155, 156 and 157, 158 and 159, 160 and 161, 162 and 163, 164 and 165, 166 and 167, 168 and 169, 170 and 171, 172 and 173, 174 and 175, 176 and 177, 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794 and 795, 796 and 797, 798 and 799, 800 and 801, 802 and 803, 804 and 805, 806 and 807, 808 and 809, 810 and 811, 812 and 813, 814 and 815, 816 and 817, 818 and 819, 820 and 821, 822 and 823, 824 and 825, 826 and 827, 828 and 829, 830 and 831, 832

The body face, to as did on white, yellow, & red  
 Quercus leaf - angles, ~~leaves~~ leaves of leaves of leaves of leaves  
 Late the more H<sub>2</sub>O based body of fruit, leaving it  
 cream white, with a few thin brown dots near each edge.

YOSEMITE, CAL

[illegible]

1 2 3 4 5 6 7 8 9 10 11 12 The stages of the leaf  
initially, the leaflets will have a greenish yellow  
the white margins become faint, the leaflets  
in a band of heavily spotted with brown, the  
spots small & so dark that some become con-  
spicuous. They tend to segregate in longitudinal  
lines between the lateral yellow lines. About  
the 10th or 11th day the central white & anal plates  
days & extend beyond the margins. anal plates  
at 10-12 mm

various to older for'ever left leaves left b.

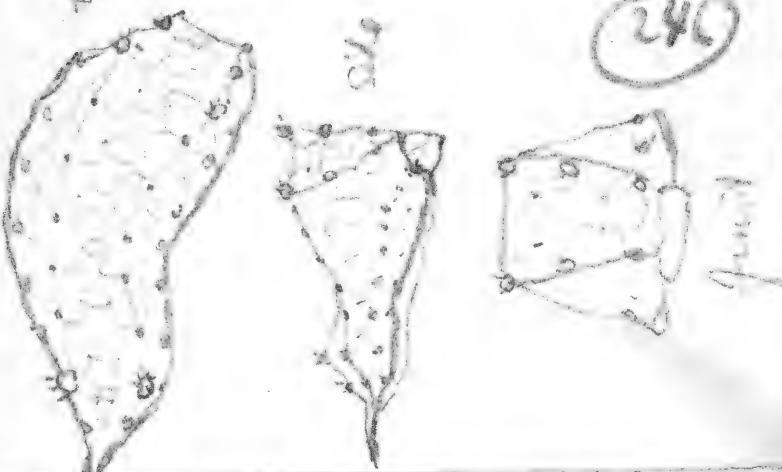
H. G. Dyar Collected  
 12/13/90 3/16/94  
 YOSEMITE, CAL.

... to ... .. leaves ... ..

Skin fine pale spinulose not granular.

Sketches only

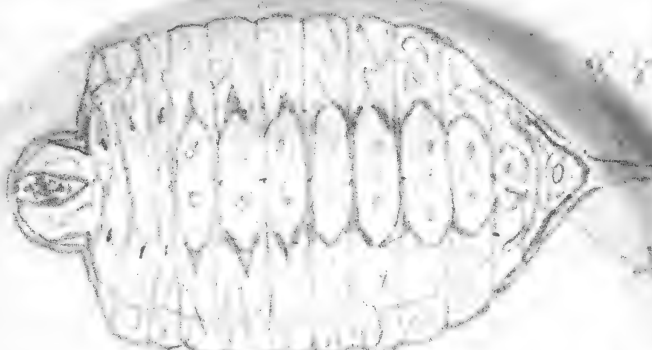
(246)



*Parasa chloris* (under side)

Sept 18 & 10  
 " 19 & 9.5  
 wormy cocoons!

ON  
 wild cherry  
 chestnut  
 hickory



Line 3.6 mm - tail evidently raised  
 D13 green ... ..  
 ... ..  
 ... ..

|         |      |          |                         |
|---------|------|----------|-------------------------|
| Sept 10 | 7.2  | 3rd inst | long as width of it     |
| " 11    | 6.8  | 4th inst | space on it             |
| " 12    | 9.5  | 5th inst | more Sept 11 tail still |
| " 13    | 9.8  | "        | slipped, 1st inst. skin |
| " 15    | 11.0 | "        | just opening, almost    |
| " 17    | 10.4 | "        | tail close, small       |

... are ...

H. G. Dy Cope

12/13/90 3/16/94

YOSEMITE, CAL.

to the bottom of the leaves of the

4. The leaves from above are somewhat  
 oval, somewhat angular, flat, and the  
 veins are not very distinct. The  
 margins are serrated, the serrations being  
 small and sharp. The petiole is short  
 and stout, with a slight  
 constriction at the base. The  
 leaves are 3-4 inches long, and 1-2  
 inches wide. The color is a  
 pale green above, and a  
 lighter green below. The  
 leaves are very brittle, and  
 break easily. The  
 flowers are small, and  
 are borne in a loose  
 raceme at the end of the  
 petiole. The fruit is a  
 small, round, green  
 berry, which is covered  
 with a fine, white, powdery  
 substance. The leaves  
 are very similar to those  
 of the *Salix* genus.

3-16-94

247 = "P. ..."

VI

13. The leaves are somewhat  
 oval, and the veins are  
 not very distinct. The  
 margins are serrated, the  
 serrations being small and  
 sharp. The petiole is short  
 and stout, with a slight  
 constriction at the base. The  
 leaves are 3-4 inches long,  
 and 1-2 inches wide. The  
 color is a pale green above,  
 and a lighter green below.  
 The leaves are very brittle,  
 and break easily. The  
 flowers are small, and are  
 borne in a loose raceme at  
 the end of the petiole. The  
 fruit is a small, round,  
 green berry, which is covered  
 with a fine, white, powdery  
 substance. The leaves are  
 very similar to those of the  
*Salix* genus.





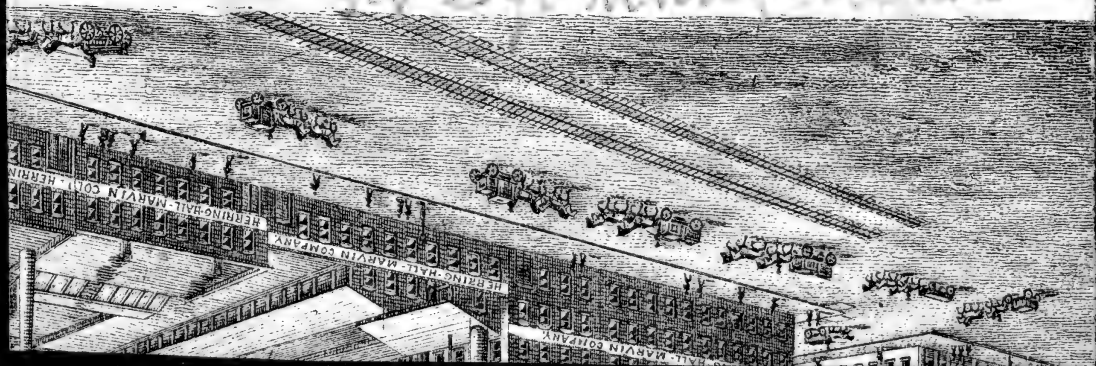


Length  
 2.5  
 7 inches  
 34.87 mm  
 not altered  
 H. 6.5

Another in Virginia of the date 82  
 4mm 0345 11 12 13 quite long  
 67.970 very small  
 8 dist. very large 13 consolidated  
 3-4 moderate 6-12 small  
 all approx. shape some rounded  
 less tapered just, thin  
 and up in a double height

*Marvin*

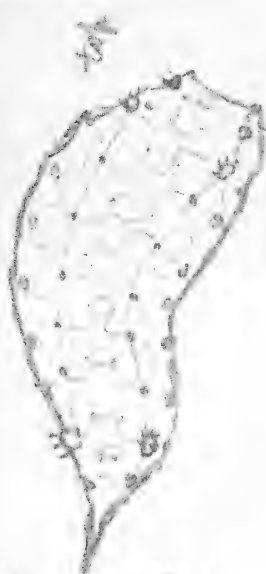
185 W Pearl St.



Skin fine pale spinulose not granular.

Sketches only

(246)



head

Spinules in 5 high up.

① 3-12 spine good but not well flanged up on any down only 3-5, 11-12 rather large 11 longest 6-16 tiny but many spinules ② 3-4, 6-12 no spine on 13 but a long hair. ③ fin setae. 2 not concealed, its spinule even exposed of a lat. retraction of 3. 5th spaces obscure (one  $9\frac{1}{2}$  mm (headed) dist. present. <sup>ant. glandular</sup>)

" 11 a backing, others smaller. tan color to reddish brown or purplish brown, spinules dark but pale in ① 11. The ground color is greenish and the dorsal & pectoral & anal fins are colorless.



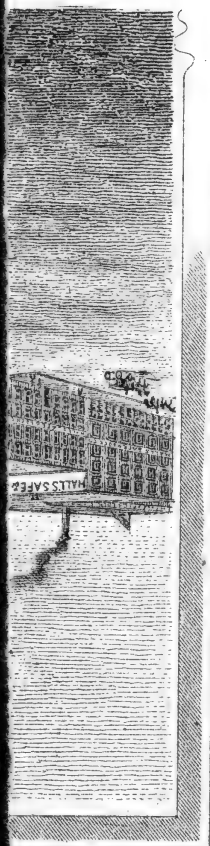
Gentlemen:-

HERRING.

TO THE STOCKHOLD

Van Cortlandt Park

Aug 31 1895



HERRING

Swampy Aug 17 1891 R  
Y. wood. Luscious  
Bentley 1/2 in Kern Valley Aug 2  
1898 YW (see fig on page 11) 11 1/2  
L. 2 1/2 in. 10 1/2 in. 1 1/2 in. 1 1/2 in. 1 1/2 in.  
1 1/2 in. 1 1/2 in. 1 1/2 in. 1 1/2 in. 1 1/2 in.

② line 3-4, ③ line 3-12.

|           |      |   |     |     |     |  |
|-----------|------|---|-----|-----|-----|--|
| Og. calc. | 34.5 | 5 | 1.5 | 1.5 | 2.1 |  |
| Wt. loss  | 37.5 | 5 | 1.5 | 1.5 | 2.4 |  |

[illegible]

The white oak in Keene Valley, N. Y. Jan. 21  
 1894 young tree 150 ft in perimeter 12 ft. dia  
 at base. It is a fine tree in lower  
 part of ridge. It is a close fine tree



IV? # Another from same locality (ade) Fasciola

Diary

Leafy

Aug 31 4.15 eating  
 Sept 1 4.2 4.7 "  
 " 2 4.4 5.1 "  
 " 3 4.3 (shed) 5.3 "  
 " 4 " " 5.3 "

Green, ridge fairly yellow. 2 rows of white rings (d sep) additional shown. Several stiff 2<sup>nd</sup> setae on both ridges besides the large black tipped 1<sup>st</sup> ones. Skin near & beneath, a few granules but also a number of long spines (2<sup>nd</sup>) like a ridges. ② dorsal spines, almost horned. Spines in line. 3 rows on 3 & 4 (and 5.15 just shed by hide) Sept 2

Another little one just shed 2.9 mm on being Sept 3. Stage IV?

IV IV

V

Sept 4 2.9 4.3 5.3 e  
 " 5 3.1 4.4 5.2 1/2  
 " 6 3.4 5.0 5.2 "

Another 6.7 springing to shed. Shed still springing

IV V VI VII

2.9-3.4 4.0-5.0 5.5-7 7.0-

4.1-4.4 5.0- -11.5

4.5-5.2 5.2 -13

-6.7 -7.7

" 9 3.4 5.1  
 " 11 4.0 eating V  
 " 12 4.5 "  
 " 13 4.7 "  
 " 14 4.8 "  
 " 15 5.0 on back

" 18 5.5 eating VI spring

" 19 6.0 "

" 20 6.5 "

" 21 7.0 "

" 22 7.1 "

" 23 7.0 to shed

next Sept 14 smooth, no setae

Sept 26 8.6



weak

Length 7.7 (end of stage) VI

to show setae (springing). ① two 2-13

② two 3-4, ③ one 3-13.

DEPOSITED BY

189

IN THE

Lincoln National Bank.

SPECIE,

BILLS,

CHECKS,

CBQ

5

50

96

8

Wm H H

1. 3. 5. 7. 9. 11. 13. 15. 17. 19. 21. 23. 25. 27. 29. 31. 33. 35. 37. 39. 41. 43. 45. 47. 49. 51. 53. 55. 57. 59. 61. 63. 65. 67. 69. 71. 73. 75. 77. 79. 81. 83. 85. 87. 89. 91. 93. 95. 97. 99. 101. 103. 105. 107. 109. 111. 113. 115. 117. 119. 121. 123. 125. 127. 129. 131. 133. 135. 137. 139. 141. 143. 145. 147. 149. 151. 153. 155. 157. 159. 161. 163. 165. 167. 169. 171. 173. 175. 177. 179. 181. 183. 185. 187. 189. 191. 193. 195. 197. 199. 201. 203. 205. 207. 209. 211. 213. 215. 217. 219. 221. 223. 225. 227. 229. 231. 233. 235. 237. 239. 241. 243. 245. 247. 249. 251. 253. 255. 257. 259. 261. 263. 265. 267. 269. 271. 273. 275. 277. 279. 281. 283. 285. 287. 289. 291. 293. 295. 297. 299. 301. 303. 305. 307. 309. 311. 313. 315. 317. 319. 321. 323. 325. 327. 329. 331. 333. 335. 337. 339. 341. 343. 345. 347. 349. 351. 353. 355. 357. 359. 361. 363. 365. 367. 369. 371. 373. 375. 377. 379. 381. 383. 385. 387. 389. 391. 393. 395. 397. 399. 401. 403. 405. 407. 409. 411. 413. 415. 417. 419. 421. 423. 425. 427. 429. 431. 433. 435. 437. 439. 441. 443. 445. 447. 449. 451. 453. 455. 457. 459. 461. 463. 465. 467. 469. 471. 473. 475. 477. 479. 481. 483. 485. 487. 489. 491. 493. 495. 497. 499. 501. 503. 505. 507. 509. 511. 513. 515. 517. 519. 521. 523. 525. 527. 529. 531. 533. 535. 537. 539. 541. 543. 545. 547. 549. 551. 553. 555. 557. 559. 561. 563. 565. 567. 569. 571. 573. 575. 577. 579. 581. 583. 585. 587. 589. 591. 593. 595. 597. 599. 601. 603. 605. 607. 609. 611. 613. 615. 617. 619. 621. 623. 625. 627. 629. 631. 633. 635. 637. 639. 641. 643. 645. 647. 649. 651. 653. 655. 657. 659. 661. 663. 665. 667. 669. 671. 673. 675. 677. 679. 681. 683. 685. 687. 689. 691. 693. 695. 697. 699. 701. 703. 705. 707. 709. 711. 713. 715. 717. 719. 721. 723. 725. 727. 729. 731. 733. 735. 737. 739. 741. 743. 745. 747. 749. 751. 753. 755. 757. 759. 761. 763. 765. 767. 769. 771. 773. 775. 777. 779. 781. 783. 785. 787. 789. 791. 793. 795. 797. 799. 801. 803. 805. 807. 809. 811. 813. 815. 817. 819. 821. 823. 825. 827. 829. 831. 833. 835. 837. 839. 841. 843. 845. 847. 849. 851. 853. 855. 857. 859. 861. 863. 865. 867. 869. 871. 873. 875. 877. 879. 881. 883. 885. 887. 889. 891. 893. 895. 897. 899. 901. 903. 905. 907. 909. 911. 913. 915. 917. 919. 921. 923. 925. 927. 929. 931. 933. 935. 937. 939. 941. 943. 945. 947. 949. 951. 953. 955. 957. 959. 961. 963. 965. 967. 969. 971. 973. 975. 977. 979. 981. 983. 985. 987. 989. 991. 993. 995. 997. 999. 1001. 1003. 1005. 1007. 1009. 1011. 1013. 1015. 1017. 1019. 1021. 1023. 1025. 1027. 1029. 1031. 1033. 1035. 1037. 1039. 1041. 1043. 1045. 1047. 1049. 1051. 1053. 1055. 1057. 1059. 1061. 1063. 1065. 1067. 1069. 1071. 1073. 1075. 1077. 1079. 1081. 1083. 1085. 1087. 1089. 1091. 1093. 1095. 1097. 1099. 1101. 1103. 1105. 1107. 1109. 1111. 1113. 1115. 1117. 1119. 1121. 1123. 1125. 1127. 1129. 1131. 1133. 1135. 1137. 1139. 1141. 1143. 1145. 1147. 1149. 1151. 1153. 1155. 1157. 1159. 1161. 1163. 1165. 1167. 1169. 1171. 1173. 1175. 1177. 1179. 1181. 1183. 1185. 1187. 1189. 1191. 1193. 1195. 1197. 1199. 1201. 1203. 1205. 1207. 1209. 1211. 1213. 1215. 1217. 1219. 1221. 1223. 1225. 1227. 1229. 1231. 1233. 1235. 1237. 1239. 1241. 1243. 1245. 1247. 1249. 1251. 1253. 1255. 1257. 1259. 1261. 1263. 1265. 1267. 1269. 1271. 1273. 1275. 1277. 1279. 1281. 1283. 1285. 1287. 1289. 1291. 1293. 1295. 1297. 1299. 1301. 1303. 1305. 1307. 1309. 1311. 1313. 1315. 1317. 1319. 1321. 1323. 1325. 1327. 1329. 1331. 1333. 1335. 1337. 1339. 1341. 1343. 1345. 1347. 1349. 1351. 1353. 1355. 1357. 1359. 1361. 1363. 1365. 1367. 1369. 1371. 1373. 1375. 1377. 1379. 1381. 1383. 1385. 1387. 1389. 1391. 1393. 1395. 1397. 1399. 1401. 1403. 1405. 1407. 1409. 1411. 1413. 1415. 1417. 1419. 1421. 1423. 1425. 1427. 1429. 1431. 1433. 1435. 1437. 1439. 1441. 1443. 1445. 1447. 1449. 1451. 1453. 1455. 1457. 1459. 1461. 1463. 1465. 1467. 1469. 1471. 1473. 1475. 1477. 1479. 1481. 1483. 1485. 1487. 1489. 1491. 1493. 1495. 1497. 1499. 1501. 1503. 1505. 1507. 1509. 1511. 1513. 1515. 1517. 1519. 1521. 1523. 1525. 1527. 1529. 1531. 1533. 1535. 1537. 1539. 1541. 1543. 1545. 1547. 1549.

[illegible]

August 1st - 1st day of the month  
 and the first of the month  
 I went to the bank to see  
 the new bank building. It is  
 now at the corner of the  
 street and the river. The  
 building is very fine and  
 will be a great help to the  
 bank. I saw the new  
 building and the old one  
 and the new one is much  
 better than the old one.

1. Labrador (12013)  
 2. Alaska (12014)  
 3. Alaska (12015)  
 4. Alaska (12016)  
 5. Alaska (12017)  
 6. Alaska (12018)  
 7. Alaska (12019)  
 8. Alaska (12020)  
 9. Alaska (12021)  
 10. Alaska (12022)  
 11. Alaska (12023)  
 12. Alaska (12024)

but "it" is ① ∴ part to ①  $\sim 1/2$



Trace of the thread of  
 pit-furrows out at base  
 of long horns 5 and 11

[= dorsal interseg. divided,  
 lat. (interseg.) and lower  
 lat. interseg. depressions]

3-16-14

4 pithaceous in corns & black ink  
 Glendale 22 Sept 5 1895



in spring, all the  
 hatched larvae  
 with 1 and 2

of on one side  
 of on the other side

spiracle on 5 only a little higher up (but  
 distinctly so) than the others,

32-12, appears ① 3-4, 6-13

① long side, short other ② short one side long  
 other

pulled off horns on one side  
 and numbers 2 & 3 off  
 the other. They came off  
 joints 4 and 6, joint 5-

seems to have some & be reduced  
 the pieces with such came off attached

[Chelated]

a faint white line along 1st & 2nd joint

a faint white line along 2nd & 3rd joint

[ = dorsal intersag. dished lat. intersag. and lower lat. intersag. depressions ]

3-16-74

2570

[illegible]

4 pithaceous on cornus & black oak  
 Glendale L. 2 Sept 8 1895



See Spring, all the  
 between the other  
 with 2 and 3

off on one side  
 within other side

spindle in 5 - only a little higher up (but  
 distinct) so of them the others

32-12, appears ① 3-4, 6-13

① long side, short other ② short one side long  
 other

pulled off from on one side  
 and numbers 2 & 3 off  
 the other. They came off  
 joints 4 and 6, joint 9

seems to have come & be reduced  
 the pieces other such came off attached



to the horns (see alcohol). On side  
 where 2<sup>d</sup> & 3<sup>d</sup> horns were joined &  
 there are three bare segments,  
 all almost alike, joint 4 rather  
 the smallest. Which one had  
 no horn? Was it 4? rather the  
 5. Horns ① come from between  
 the segs. all right, i.e. ant side  
 of seg. ∴ if 4 is out 5-13 lean  
 forward. Lateral so. 3 tubes up all  
 seg. This makes 8 just the long ①  
 as it ought to be (cf Euler)  
 8. flange (space?) of 3 overlaps  $\frac{1}{2}$  of  
 4 while that of 7 overlaps back  $\frac{1}{2}$   
 of 6, but I can't tell whether 4 or  
 5 horn is out. One must be.  
 Now I have it! ① 3 forms no horn. See it  
 there in sketch! The horn we both suspected  
 formed overlapping 3. **AS I PUBLISHED!**

are these pictures & prices?

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[illegible]

March 5, 1891 Cat no 5387 P

*Phobothron guttaceum*

Phosbetron 3 4 5 6 7 8 9 10 11 12 13  
 Enucleating 3 4 5 6 7 8 9 10 11 12 13  
 Diluine 3 4 5 6 7 8 9 10 11 12 13

\* Fine new variety of plant, no other of this morning  
seen at same place. Very interesting

Set of papers on which leaves not seen, no fruit!  
full of ichneumon  
(1891)  $251 = 128$

about 1/2 to 1/3 of white rock 1-573  
about 1/2 to 1/3 of white rock 1-573

Not so high as the other hills, & much  
lower than the other hills.

[illegible][illegible][illegible]

*[Faint handwritten notes on lined paper]*

1. Large representative to the 2 156  
smaller Detl 91 Chatham 6828 8  
with grade 44 Chatham 6828  
Nov 25 1892 Chatham 6828



WW

W W W

Selam

[illegible]

Sept. 8, 1896, found 5 at Mendenhall  
H. of. on Chestnut 'wild cherry', 'hickory'  
'yellow birch' and 'hop hornbeam'. Not  
found on the low land near Poplar  
slots, north of the road. One found  
up on the hills.

|            |                     |                     |            |
|------------|---------------------|---------------------|------------|
|            |                     | [67]                |            |
| Calculated | $\frac{7}{8} = 1.4$ | $\frac{7}{8} = 1.4$ |            |
| <u>II</u>  | $1.4 - 2$           | $1.4 - 2$           |            |
| <u>III</u> | $2 - 2.9$           | $2 - 2.9$           |            |
| <u>IV</u>  | $2.9 - 4.1$         |                     |            |
| <u>V</u>   | $4.1 - 5.9$         | $(4.8) - 5.6$       | <u>5.8</u> |
| <u>VI</u>  | $5.9 - 8.4$         | $5.6 - 12$          | <u>6</u>   |
| <u>VII</u> | $8.4 - 12$          | $9.5 - 12$          |            |

|   |   |    |   |
|---|---|----|---|
| 1 | 4 | 12 | 1 |
| 1 | 5 | 12 | 1 |
| 1 | 6 | 12 | 0 |
| 1 | 7 | 13 | 0 |

Sp. 1 grows in patches of 1-2 ft. in  
in dense space overlooking  
the river. (1) - common.  
(See sp. structural diagrams)  
Sp. 1 - yellowish green, lat.  
slightly above, 1 of double,  
a broad yellowish white  
line, free at base. Small

King's Travel  
or - 212 - 1234  
all of them are

[illegible]

Light green Paskandias on Thindens, top  
 brown beam, black and maple  
 8, 7.5, 6.5, 4.8, 7, 6, 6, 7.5, 6.3, 5.5, 6.5, 7.5  
 5.5, 5.4, 6.5, 6.5, 5.0, 5.2, 6, 4.8

4.8 walking Aug 24  
 4.6 eating " 25  
 " " " 26  
 5.2 " " 27  
 6.2 " " 28  
 7.2 " " 29  
 5.6 toad " 30  
 Sept 2 5.6 toad  
 (over)

9.3<sup>VI</sup> eating Aug 24  
 8.8 still " 25  
 " " " 26  
 9.2 by eat " 27  
 9.4 eating " 28  
 9.5 toad " 29

Sept 1 " in setae  
 OVER  
 Setae small  
 distinct, from  
 upper 1/2 lat.  
 ventrals  
 (1) (4) joint  
 tail end

dist. ate, ant end rounded, joint  
 visible but not well haired  
 in 2 space moderate, even, but  
 little arched, lat head, 8-8  
 moderate, but little, round.  
 Ridge low tubercular with  
 distinct dark setae, setae  
 watery granular, no 2<sup>d</sup> spines  
 white, very translucent, green  
 pigment only in upper 1/2 of  
 lat sp. more in 2 space  
 which is darker from food.  
 A row 2 line ① band in the  
 interspaces free at 2<sup>nd</sup>.  
 deep space at ant end of  
 left faint white ring (4)  
 then on with head, black  
 brick, wild cherry and (black  
 oak at Plumbville Aug  
 25 1896] 9.5 toad 25 9.5  
 Sept 3 Sept 6 no 25

Shed Sept 2 V narrow elliptical with tail.  
 Setae short, black, distinct. Pigment  
 only upper 1/2 of lat sp, rest of body  
 clearer green from black, translucent  
 & white in thin edges. A very yellow  
 line ① free at the ends. (1) deep space very  
 faintly indicated & white  
 Not visible centrally only;  
 (4) as large intensity, white  
 rings, but probably all if  
 (1)-(8) are present as there  
 are a few larvae dropping a  
 clear gland in the form of  
 5 (1) (2) (4) and 3 (5); 5-8 (7) (8)  
 are indicated by a narrow  
 depression faint, but with  
 a clear drop also. Spines  
 white. Skin densely dark  
 coarse, not continuous,  
 granular, deep spaces not indicated.  
 2<sup>d</sup> spines; setae from small tubercles  
 First no spinning Sept 6. Length 1.2-1.2 cm



H. G. DYAR

12/11/90

YOSEMITE, CAL.

Survey Field UDYAR with the officers of the Police

YOSEMITE, CALIF.

YOSEMITE, CAL.

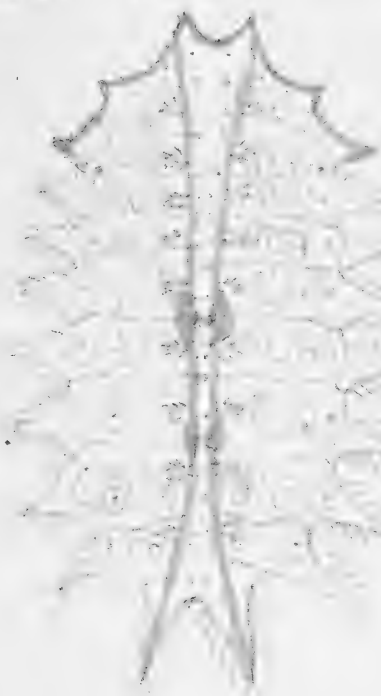
first when the body is relaxed.  
 do not work with the body in the  
 position of the body. The body is  
 relaxed in the position of the body.

*[Faint handwritten notes, likely bleed-through from the reverse side of the page.]*

[illegible]

5/11/00 on 3rd small, elevated portion of Negro Landing, Richmond, Virginia

W. 100 ft. above sea level.



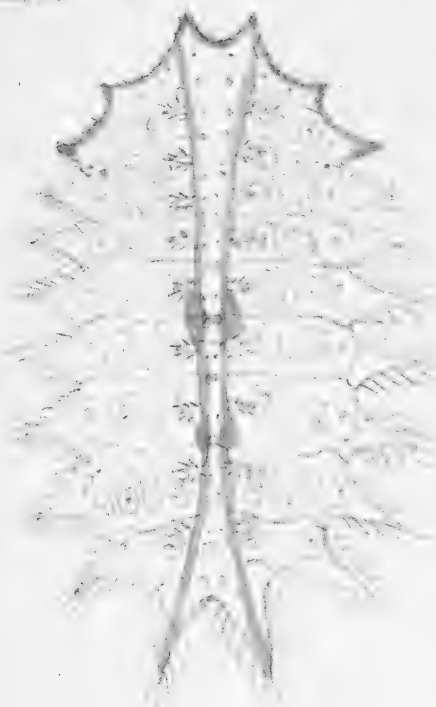
8-9 and 10-11 a  
large pale yellow  
with faint blue lines a  
swelling on narrow  
yellowish line with  
red dot internally  
another and behind  
a pair of red dots  
9-10 and a pale  
dot on each side 11-  
12 dark with red dots

Delaware Space. 4 ft. per sec. may be  
used to get a center of English. The  
house, above the center, has possibly  
repeated spaced house & small address.  
Upper bed set about. Interior and  
lower bed. Interior large bed in  
the square. X. Enlarged above the  
position below. There is a bed 'day'.  
Small room, looks like a  
apartment. More distance in the way  
contracted & space.





major sep. more even  
width.



8-9 and 10-11 a  
large pale yellow  
-1 for the like a  
sun-bleached in warm  
yellow & line with  
red dots internally  
another had beside  
a pair of red dots  
9-10 and a single  
dot on each side 11-  
12 dot with a yellow

defensive space. 4 d. per sep. may be  
most likely, 4 central & English. like  
dovels, abundant, mostly of dark purple  
repeated paired dots & small additional  
sep. lat. sep. absent. intersep. and  
lower lat. intersep. large, but on  
the segment, confluent along the  
posterior border. Lower lat. sep.  
small round, looks rather like a  
sprinkle. more distinct in the very  
contracted 5 & 6 space

*Parasarcophaga* or *Myiophaga*, Boespart  
L. J. Aug 1 1896

Stage <sup>4.5</sup> 5.12 (5) Skin ~~conic~~ <sup>IV</sup> ~~water~~  
granular, ~~microtuberculate~~ + spinous  
strongly whitish (1) line & d. dots  
Stage 5.4-3.7 (5) ~~as above~~ <sup>V</sup> Similar,  
granular spinous, ~~white~~ <sup>white</sup>  
tail moderate.

2 Stage 2.6 Tail quadrates. Covered  
with 2<sup>nd</sup> spinous. Head, whitish (1)  
black spinous

2 Stage 1.9 Same, spinous 2<sup>nd</sup> spinous  
blackish over back

2 Stage 1.6 Fourth green, similar, no  
thrust. Skin spinous 2<sup>nd</sup> spinous

Stage 12 Smoky ~~gray~~ <sup>gray</sup> whitish green.  
head yellow (1) dark green above

Stage 7.4 (4) White green, spinous  
red, pale yellow (1). pale spinous  
dark white (4) green centered

|     |         |         |         |
|-----|---------|---------|---------|
| I   | .88-1.2 | .9-1.4  | .9-1.7  |
| II  | 1.2-1.8 | 1.4-1.9 | 1.6-2.5 |
| III | 1.8-2.6 | 1.9-2.7 | 2.3-3.5 |
| IV  | 2.6-3.7 | 2.7-4   | 4       |
| V   | 3.7-5.3 | 4-6     | 6       |
| VI  | 5.3-7.6 | 6-9     | 9       |
| VII | 7.6-11  | 9-14    | 14      |



to shed 5.5 A half hour

just shed 5.0 B "

eating 7.5 C "

" 9.5 D checked

all within hours, of  
body only

Another 13 mm

Horn III 6 good, OK

with the slight addition  
I made on it in pencil;

too long in 13 so just  
let him on it!

also on chestnut

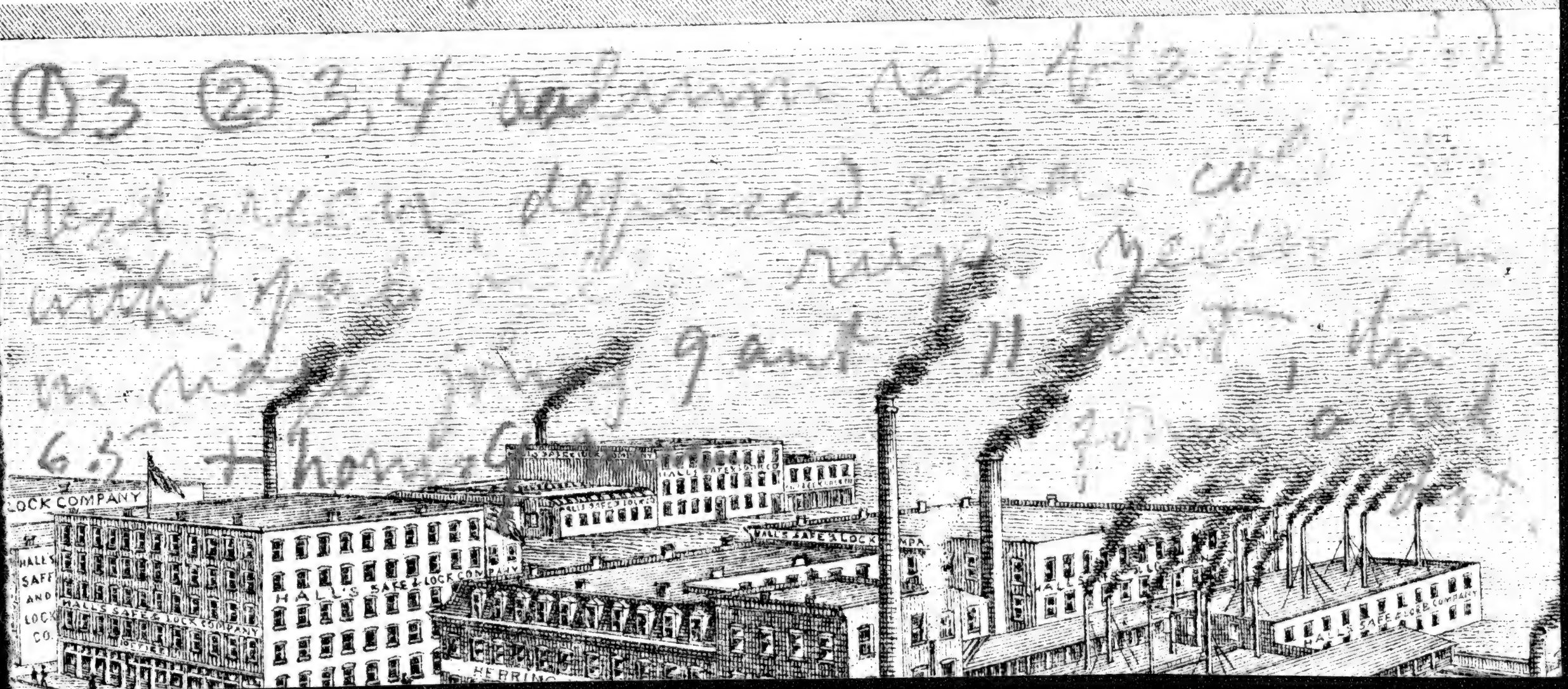
Sisyroser inornata on  
hop hornbeam, Fort Lee, Sept 3  
1895. D. space very narrow, most  
as at 7-9 widening to ends (!)  
lat space very broad, s-v space  
very small, contracted. Tarsa  
all sides :: very flat. Tubercles  
flat pointed horns projecting  
laterally, ① 3-13, 3 & 13 long  
other smaller, 9 & 11 a little  
longer. ② 3-4, 6-12 | spaces in  
5 in lateral space) all rather  
long, must so post. Spines with  
separate black tips. Skin all  
fine clear wavy wrinkled horns  
trans. corrugated. Depressed  
spaces show only glandular center  
but distinct, white ringed, dorsal  
4 centers, and obscure 1 center.



*up to date with the latest in the industry*

# HALL-MARVIN

*See my S-V code in the LG WG H.1*

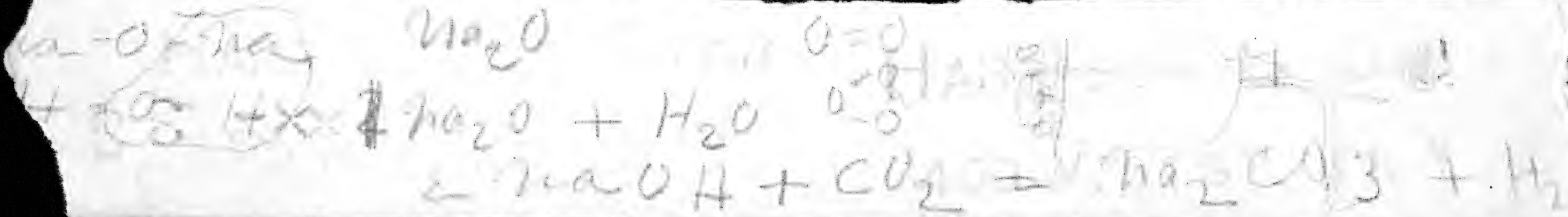




JARRISCH G DYAR

400 W. 57 ST, N. Y.

44  
TAYLOR & N 1245 - N 200  
1545 1545 1545 1545



257 = 127

*[Faint handwritten notes, mostly illegible]*

Wild Cherry from California Sept 9 1891

copied  
1931

W WW

WW

*[Faint handwritten notes]*  
... length 4.9 ...  
... 12x43 ...

all summer long,  
each full-mooned night,  
senses strong,  
ye's delight.

lv

18

*[Faint handwritten notes]*  
... 12x43 ...  
... 12x43 ...  
... 12x43 ...

David April 1891



[illegible]

dec'd M.L. 1941

256 (cont) Stage VII, Length Jul 26

7.7 mm, [Aug 6 would side of white, 1 side between  
leaves L. 11.5 mm. Pinnae 11 mm.

Transparent granules close covering  
whole surface. Impured areas very  
small, central d. smooth whitish  
with green centers. Dorsal appendage  
ad-d. was absent on surface, but  
represented by white dots below  
skin. Lateral fringe areas in-  
dicated by pipant much green, but  
the smaller ones not apparent.  
Unicellular setae minute  
2 on D. 8 x 3.5 mm Jul 29 Elongate  
narrow, 13 a pointed tail height 2.5  
whitish green, not yellowish. a



d. piece line interrupted 2 lines 10%  
 white unspiced spots. 5d line 10%  
 yellowish white, curved 3 or 4 tent  
 edges above dark green. a row  
 of white dashes on 1st ridge  
 1st lat. unspiced spots white  
 with dark center as d.  
 gently curved, highest through  
 7-8. Seems to be 121 = 256  
 but small. 5d line straight  
 running with 1st. Differs from  
 256 in curvature of 5d line at ends  
 to the white. Distinct 1st  
 unspiced spots. 9.7x4 July 31  
 Aug 1 10.5x4.3 Aug 3 11x4.2

color  
 under  
 over  
 white  
 yellowish green



|       |     |           |
|-------|-----|-----------|
| Aug 2 | 1.7 | to the    |
| "     | 3   | " "       |
| "     | 4   | " "       |
| "     | 5   | " "       |
| "     | 6   | " "       |
| "     | 7   | " "       |
| "     | 8   | " "       |
| "     | 9   | collected |

Little cuds on which  
 cherry Ballpark L. I.  
 On back of leaf needs  
 similar to head.  
 Elliptical,  
 sides parallel, ends  
 rounded, but squarish  
 & space broad, slightly  
 concave, but moderate  
 SV space rather broad.  
 Ground glass whitish  
 green, no nerves. Setae  
 black tipped, iiii  
 moderate, seems to be

5-d ridges, a few 2<sup>d</sup> apert. pores  
on the ridges, raised on ②. ①  
slightly tubercular, ② distance 50  
Skin finely warty granular not  
a shagreened appearance, def. Spores  
from faint lenticled masses on the  
back, all defined & concolorous

PAN leaps and pipes all summer long,  
The fairies dance each full-mooned night,  
Would we but doff our lenses strong,  
And trust our wiser eye's delight.

95

July

18

*Mon.*

*Tue.*

*Wed.*

*Thu.*

*Fri.*

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24

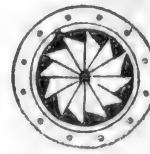
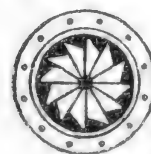
25

26

29

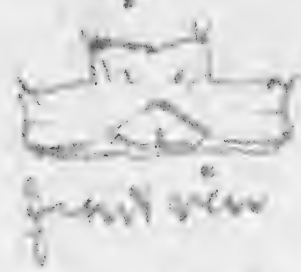
30

31





<sup>1st</sup>  
Lake Packard 256A but 2-headed and 8.5 mm long.




elliptical into a narrow quadrate tail.  
Ridges angled, the lateral area about  
flat. yellowish green, the lateral  
parts paler very thin. A yellow

line on sd ridge nearly joining on 3 and passing  
narrowly to end of tail. S. a ad impressed space  
and a broken line along lat. ridge pale  
yellow. Skin punctate clear rather minute. D  
spaces defined, round, and one spot below  
dorsal. Laterals ill defined hollows, the skin  
uniform right over them. Tubercles coarse, clear  
2 dots on D, one on C. Hd about 1 mm.

~~The 1st stage~~ Came out the white green Jack-  
and-die the others. At first just clear  
green as before sd line yellowish white  
impressed spot and dots on lat. ridge  
whitish. Gradually a white shade appeared  
whole body defining the sd line by a dark  
green shade below. Aug 14 10.5 mm (not  
nearly so white as other Jack-and-dies) Aug 15 11 mm  
Aug 16 12 mm much whiter, almost like other Jack-and-dies  
Suggests a "blue green" now. Aug 18 Can hardly separate.

A Packardia on black oak Bellefont  
 L. J. July 19 1896. IV

|         |     |        |   |
|---------|-----|--------|---|
| July 20 | 4.6 | eating | Clear glass, one 2  |
| " 21    | 4.7 | "      | waved line along ①  |
| " 22    | 4.5 | tested | 3 just to tail, a faint   |
| " 23    | "   | "      | line along ②. 8 dots  |
| " 24    | 4.8 | eating | white with dark center  |
| " 25    | 5.2 | "      | none distinct on sides  |
| " 26    | 5.2 | "      | 13 produced granules  |
| " 27    | 5.9 | "      | notched beak  |
| " 28    | "   | still  |  ① <del>②</del> ③ |
| " 29    | "   | "      | ① ① Tubercles   |
| " 30    | "   | shed   | crucial, continuous   |
| " 31    | 7.0 | eating | ① 2 setae ③ 1 seta  |
| Aug 1   | 7.2 | "      | black. Skin sparsely  |

V  
 watery granular, on tubercles, also  
 but nowhere produced. No 2 setae

~~July 20 4.6 eating~~ What July 24 ①  
~~July 21 4.7 "~~ double cones  
~~July 22 4.5 tested~~ ① single cone  
~~July 23 " "~~ line along ① below  
 setae dark, straight, yellow. Tail  
 not produced, not notched,  
 notched, color same, a row of  
 white rings on sides. Skin  
 watery granular  
 Shedd July 20 PM seen in

[Another July 28 length 4.9 on wild cherry.  
Hunted for its shell. Found on old shell  
on same branch without eat. Slightly on  
inside side. Flat, elliptical  $1.8 \times 1.5$   
ret. narrow, plump irregular obscure I  
stage VI as all regularly warty  
granular yet very stiff dark  
setae on the scarcely tubercle  
ridges. Tail well marked. Green  
yellow & d line edged darker  
green above. D. & paired add.  
whitish spots, the former strong  
green centered. On last row.  
anterior, green centered. Tail  
is made of 13 produced - a long space  
between D12 and D13 and the anterior  
of the latter separated.



256



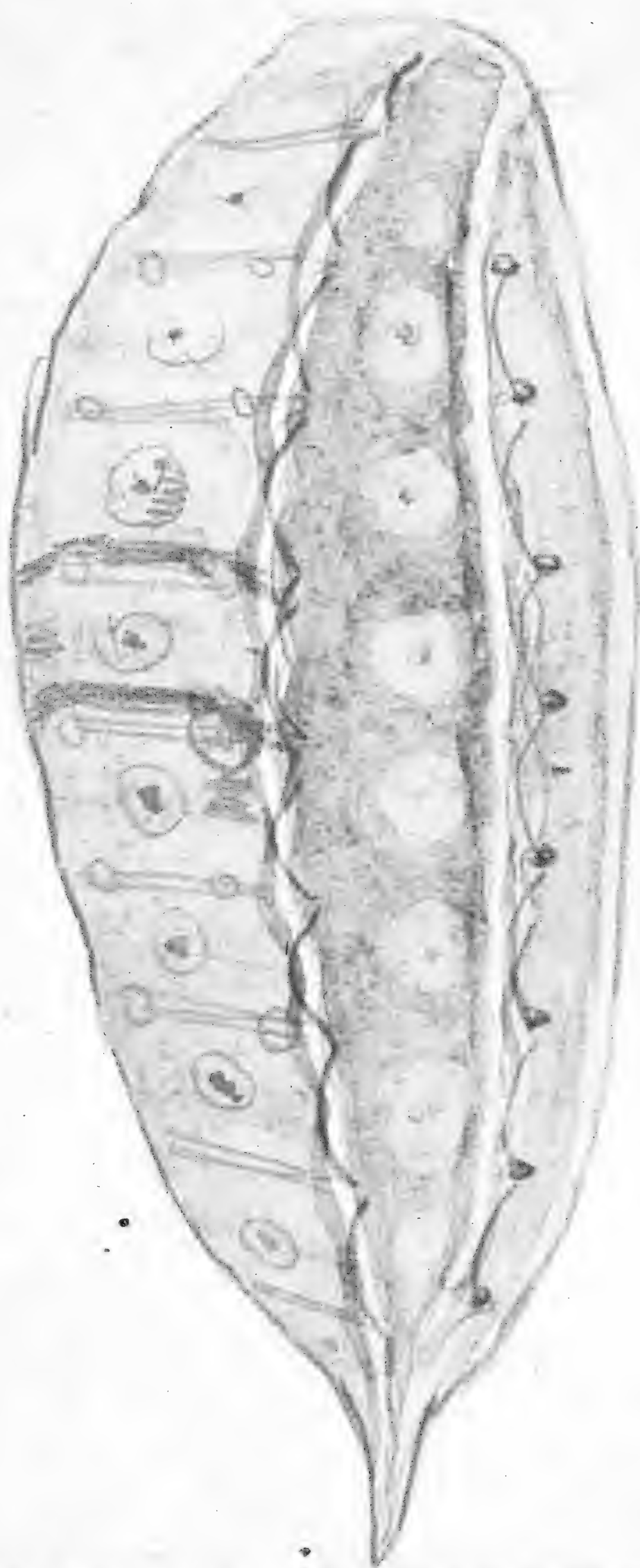
W. H. H.  
July 2, 1898

256



gemma  
VII







Copied 6/12/91 267 (see 460)

ROSELITE, CAL.

YOSEMITE / CAL®

[illegible]







Levi 9/10/10

28

(Phagipin 30) di 5-10 mg po

culc .55 .76 1.1 1.5 2.0 2.8 3.8 x .72  
 Frons before .7 1.0 1.5 2.1 2.8 3.5  
 now H. 5 G. D. V. 2.0 2.5 3.1

28/79 JOSEWITE, CAL.  
 (201)

28/79 JOSEWITE, CAL.  
 (201)

28/79 JOSEWITE, CAL.  
 (201)

28/79 JOSEWITE, CAL.  
 (201)

28/79 JOSEWITE, CAL.  
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28/79 JOSEWITE, CAL.  
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28/79 JOSEWITE, CAL.  
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28/79 JOSEWITE, CAL.  
 (201)

28/79 JOSEWITE, CAL.  
 (201)

262

Hatched on oak, Yosemite Cal. May 22, '91  
 Hd slightly depressed at vertex, cord, shiny  
 pale green, mouth white, ocelli brown

.82 mm Body enlarged at 12, feet normal  
 pale green, a d, s-d & super-sty pale  
 white lines, the s-d dentate upward on

12. Many round small white spots each  
 bearing a minute seta, body shiny, black  
 a little dusky, feet 2.5? Hd 1.2

Another same but more distinct. Sty  
 line yellowish above, spiracles black  
 ring of s-d line undulate. Hd 2.2

Imago July 21. *Phyllopyramidoidea*

very small. In some not distinguishable, in  
 others whitish, but I could see no hairs from them  
 Egg 263 Slightly tapering, cylindrical, pale yellow  
 with black dots, etc. and some of the  
 other (larva) 1.5 mm. Hd pale yellow color, the  
 black and white. 1.5 mm. long & .6 mm. wide  
 (larva) 1.5 mm. long & .6 mm. wide



in above sp. almost completely replaced  
 the black of band except for 2 rounded  
 black spots, which are the central  
 of the band. 263 (Stage before 2.3 same)  
 C. vivipara on deciduous trees. <sup>Aug 10 1912</sup>  
 Cal. dark 2 3/4 Head brownish black  
 black vest. mouth black, lower part  
 & chin white. Antennae white, segs  
 W 3 mm. Body black, densely covered with  
 grey blue over the whole lateral eye  
 brown. A few black spots &  
 a <sup>4</sup> ~~large~~ <sup>small</sup> black spot on each  
 seg. <sup>4</sup> ~~laterally~~ <sup>ventrally</sup> ~~ventrally~~ <sup>ventrally</sup> ~~ventrally~~ <sup>ventrally</sup>  
 below the space. Below the space  
 the blue becomes more white and  
 with soft of silver white line goes  
 from the base. There is a 3-4 row, black  
 brown rather broad black, with  
 irregular outline, situated between & in the  
 middle of each seg. & contains a double  
 narrow longitudinal orange line which  
 breaks into the posterior part of each  
 segment & is considerably conspicuous  
 large. Thicket hair. Other hair longer  
 black. Joint 2 & 3 very ornamented  
 feet black. <sup>1st</sup> ~~1st~~ <sup>2nd</sup> ~~2nd~~ <sup>3rd</sup> ~~3rd~~ <sup>4th</sup> ~~4th~~ <sup>5th</sup> ~~5th~~ <sup>6th</sup> ~~6th~~ <sup>7th</sup> ~~7th~~ <sup>8th</sup> ~~8th~~ <sup>9th</sup> ~~9th~~ <sup>10th</sup> ~~10th~~ <sup>11th</sup> ~~11th~~ <sup>12th</sup> ~~12th~~ <sup>13th</sup> ~~13th~~ <sup>14th</sup> ~~14th~~ <sup>15th</sup> ~~15th~~ <sup>16th</sup> ~~16th~~ <sup>17th</sup> ~~17th~~ <sup>18th</sup> ~~18th~~ <sup>19th</sup> ~~19th~~ <sup>20th</sup> ~~20th~~ <sup>21st</sup> ~~21st~~ <sup>22nd</sup> ~~22nd~~ <sup>23rd</sup> ~~23rd~~ <sup>24th</sup> ~~24th~~ <sup>25th</sup> ~~25th~~ <sup>26th</sup> ~~26th~~ <sup>27th</sup> ~~27th~~ <sup>28th</sup> ~~28th~~ <sup>29th</sup> ~~29th~~ <sup>30th</sup> ~~30th~~ <sup>31st</sup> ~~31st~~ <sup>32nd</sup> ~~32nd~~ <sup>33rd</sup> ~~33rd~~ <sup>34th</sup> ~~34th~~ <sup>35th</sup> ~~35th~~ <sup>36th</sup> ~~36th~~ <sup>37th</sup> ~~37th~~ <sup>38th</sup> ~~38th~~ <sup>39th</sup> ~~39th~~ <sup>40th</sup> ~~40th~~ <sup>41st</sup> ~~41st~~ <sup>42nd</sup> ~~42nd~~ <sup>43rd</sup> ~~43rd~~ <sup>44th</sup> ~~44th~~ <sup>45th</sup> ~~45th~~ <sup>46th</sup> ~~46th~~ <sup>47th</sup> ~~47th~~ <sup>48th</sup> ~~48th~~ <sup>49th</sup> ~~49th~~ <sup>50th</sup> ~~50th~~ <sup>51st</sup> ~~51st~~ <sup>52nd</sup> ~~52nd~~ <sup>53rd</sup> ~~53rd~~ <sup>54th</sup> ~~54th~~ <sup>55th</sup> ~~55th~~ <sup>56th</sup> ~~56th~~ <sup>57th</sup> ~~57th~~ <sup>58th</sup> ~~58th~~ <sup>59th</sup> ~~59th~~ <sup>60th</sup> ~~60th~~ <sup>61st</sup> ~~61st~~ <sup>62nd</sup> ~~62nd~~ <sup>63rd</sup> ~~63rd~~ <sup>64th</sup> ~~64th~~ <sup>65th</sup> ~~65th~~ <sup>66th</sup> ~~66th~~ <sup>67th</sup> ~~67th~~ <sup>68th</sup> ~~68th~~ <sup>69th</sup> ~~69th~~ <sup>70th</sup> ~~70th~~ <sup>71st</sup> ~~71st~~ <sup>72nd</sup> ~~72nd~~ <sup>73rd</sup> ~~73rd~~ <sup>74th</sup> ~~74th~~ <sup>75th</sup> ~~75th~~ <sup>76th</sup> ~~76th~~ <sup>77th</sup> ~~77th~~ <sup>78th</sup> ~~78th~~ <sup>79th</sup> ~~79th~~ <sup>80th</sup> ~~80th~~ <sup>81st</sup> ~~81st~~ <sup>82nd</sup> ~~82nd~~ <sup>83rd</sup> ~~83rd~~ <sup>84th</sup> ~~84th~~ <sup>85th</sup> ~~85th~~ <sup>86th</sup> ~~86th~~ <sup>87th</sup> ~~87th~~ <sup>88th</sup> ~~88th~~ <sup>89th</sup> ~~89th~~ <sup>90th</sup> ~~90th~~ <sup>91st</sup> ~~91st~~ <sup>92nd</sup> ~~92nd~~ <sup>93rd</sup> ~~93rd~~ <sup>94th</sup> ~~94th~~ <sup>95th</sup> ~~95th~~ <sup>96th</sup> ~~96th~~ <sup>97th</sup> ~~97th~~ <sup>98th</sup> ~~98th~~ <sup>99th</sup> ~~99th~~ <sup>100th</sup> ~~100th~~

263 Corn compact of silks, thin but made of  
 a yellowish powdery substance. Paper cylindrical  
 rounded ends, with soft internal structure, much de-  
 creased in diam., soft seg. rounded, somewhat more  
 close, curved by powder substance 2 1/8 W 6 mm

*Acrostaphylos purpurea*

4.  
 African Rhopalocora  
 nymphalini

C. chitralensis (see note, 2nd ed. 111)



*Chrysocarya on pedunculata* (L.)  
Cal. May 22 91 Head powder

W 3 mm. Body black, densely covered with  
pale blue over the whole lateral region.  
A few black spots &

4/5. Entirely, laterally washed below  
brown orange & ash. Above the species  
the color becomes more white and  
ant. left of side, white hair goes  
on the side of the head, etc. etc.

irregular outlines, retracted between 2 in the middle of each seg, & contain a double brown longitudinal orange line which leaves at the posterior part of each segment, and considerably disfigures

beaver at the anterior part of each segment and considerable confusion of range tinted hair. Other hair longer blue-black. Joints 2 & 13 unornamented.

blue black. Joints 2 & 13 unornamented  
 feet colored with orange. (See No. 121)  
C. constricta (See black, Joint No. 121)

*Actinostaphylos purgens*  
 No. 1000 in the garden of the  
 Hb. in 1880. *C. J. Smith*  
 part of the collection of the Hb. in 1880.

1724-1725 (1726)  
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 1795-1796 (1796)  
 1796-1797 (1797)  
 1797-1798 (1798)  
 1798-1799 (1799)  
 1799-1800 (1800)

*[Faint handwritten notes, possibly bleed-through from the reverse side.]*

manuscript. The manuscript is a folio of 10  
pages, written in a cursive hand, and is  
preserved in the library of the University of  
Cambridge.

Styl (part) and antenna a part of V

2000 (1999) and average 1999-2000 0.15

...the ... ..

Enter conopsea with dorsum



mouth = etc? Oct Jan 27 Cat no 6893

Spines black. Black fulvous dots  
relatively small. Antennae 5  
Lam. 2 <sup>2(2)</sup> mm. Antennae 3 <sup>3(3)</sup> mm. Hd  
brownish black, mottled with whitish.  
Clypeus whitish with a large black shade  
on each side of it. Several hairs from large  
black dots. Thighs: mouth pale. Body slightly  
enlarged. 12, feet normal; velvety brown  
darker on the ant. portion of the legs and  
minutely mottled with pale ~~or spotted~~  
~~with yellowish~~: a very broad dark white  
streak line arching the black spiracles &  
shaded faintly on each seg. with pink  
& yellow, passing very narrowly over anal  
foot. Venter tinged with rose. on 12 on  
ant part! elsewhere a dark brown or red  
shade. It looked like a species before  
fulvous dots very small, white. Traces  
of whitish d. & lateral lines.  
Horn Hard cell & eye & ground on cells

266

Geometrid on maple. Greenish May 27 91  
Hd uniform green with a few short  
hairs. ocelli black, mouth brown W 12 mm  
Body somewhat beltoid in shape.  
curled sideways at rest; dull green,  
yellowish in folds of seg. incisions  
dorsal reddish darkening green. A 3rd  
greenish white band and a pair of  
narrow lateral & stig. pale lines; summit  
darker brown slightly paler on small  
elevations (2 & 3)

It can also be <sup>captured</sup> ~~red~~ <sup>greenish</sup> ~~specimen~~ <sup>testaceous</sup>  
ocelli brown most. <sup>from 17 1.9</sup>  
ant feet on 10 & 13. (Green, of anal  
quadrate narrow pale yellow lines  
on hind legs & the whole, all slightly  
wavy. Spines faintly reddish. <sup>7003</sup>  
seg ant. yellowish. Rests feet  
on legs like a noctuid. Purple cyl.  
pouches abd. small tapering. Corns  
faint curved, body punctured. <sup>15</sup>  
Seg. tapering like 2<sup>nd</sup> but curving thick spines from  
Joints only 9. Cat, no. 6625. <sup>15</sup>



2 ant. segs 42 with a pale yellow line  
Imagines Oct 11 1891 (Young in cotton)  
Cat no 6829-30 267 *Xylina*  
*longicauda* 1893

Proct. on oak (young) May 29 1891

In stages practically same as 22 & 3.7

Hd. moderately lobed, smooth, shiny green  
shaded above (with yellowish green  
more pale, <sup>juv. dark</sup> ocelli brown

W. 3.7 mm. A few short hairs from head  
Body buttonless, yellowish (2 not  
perceptibly enlarged but 13 small) dusky  
covered with little short irregular

yellow lines resembling *longicauda*, and  
narrow broken almost dotted, d, s-d  
(smaller into <sup>smaller</sup> ~~smaller~~)  
d & s-d lines of ~~smaller~~ width & much

resembling the mottling. Spiracles small  
white with a narrow black border.  
Petioles dots distinct, white, each  
with a single short pale seta. Tip of

abd. feet pale. Last member more distinct  
abd. anal <sup>d-line distinct</sup> marked with white, larv. 2 v. 1. line  
of color, each stage central anterior. Stage line  
more distinct, pale yellow spotted with red & black

268

Examined on oak of acorns May 29 1891

As in next stage Hd 1.8. Stage 27 Hd faint  
front, slightly bilobed, pale brown scarcely mottled  
with little pale yellow granulations, shading

the ground color at the lower part. ocelli  
dark brown, no dark, the other mouth part pale  
the feet on 2-4, also on 10 & 13 only. Zoopa

Body below pale, minutely spotted with  
brown, above a broad stig. pale yellow  
band encircling the whole. Abdomen

white with a narrow black border. A  
d & lateral geminate black line, wavy  
pulverulent & interrupted, between which

are 2 or 3 similar but fainter brown lines  
on a dull golden yellow ground - all the  
dorsal & lateral surface being closely covered

with minute pale yellow granulations.  
V-shield & anal plate dull yellow dotted

with brown, the dots forming the broken  
continuation of the line on the dorsal  
surface. A few short blackish hairs  
(no moths)

Egg in <sup>1st</sup> batch by ♀ bet. tin & cloth (under rock?) and  
together, spherical but somewhat pressed and  
shape together, slightly plump, smooth. D. 5 and  
Color yellow, irregularly, indented

Sbt 1<sup>st</sup> 1<sup>st</sup> YOSE 5172 other *tranquilla*

noctuids curled in houses on <sup>Sambucus</sup> elderberry  
nest of royal YOSE opposite May 30, 1891.

Hds. 1.8, 2.8 2.8 2.6 2.8 & eight more same  
head entirely black except bases of antennae

which are whitish, smooth. <sup>Antennae</sup> shining but under  
the glass slightly bluish green. A few hairs.

Body plump & smooth, tapering at the ex-  
tremities, curled spirally when at rest.

Small black piliferous dots (4) stig. post.,

(5) ant. & post. subv., (7) very small, on  
legles seg. below. Ground dark olive

green, contains a broad yellow dorsal  
band which is broken into 2 round

spots on each segment, the outer is  
one of which is <sup>trape</sup> indented or nearly

inserted in the dorsal line. This mark-  
ing is narrower towards the extremities

& becomes somewhat confused. Below



267 Cal 3, 5, 7, 11, 1.8, 2.8 n., 64

found (3) **YOSEMITE, CAL.**

the olive **YOSEMITE** is a narrow intersegmental  
interstitial S-d band bordered with  
black, a lateral blue-grey band and  
a broad sky yellow band separated  
from the lateral band by a very black  
line. Venter bluish grey, feet yellow-  
ish. ~~Streaked with black~~ ~~intersegmental~~  
~~sinuate black.~~ ✓

the dorsal & lateral regions are con-  
spicuous, bluish grey, sprinkled with  
black streaks, the dorsal & S-d  
bands edged with black dorsal plate  
unornamented. Corn of cilia, strongly  
thick and not at the ground. Pupae  
cylindrical, abd 8 seg tapering, cones  
obovate, moderate enlarged, annulate  
lateral feet, ~~as~~ <sup>dark</sup> with black spots.

very long. Pupae smooth, <sup>dark</sup> ~~pink~~ <sup>olive</sup> ~~olive~~  
black, pale in the 3rd segment. <sup>head</sup> ~~head~~ <sup>head</sup>  
L 12.5 W 3.5 mm. ~~Jan 10~~ <sup>Jan 10</sup> <sup>6565</sup>

270A = *Thecla yosemite*  
cat. no. 6562

1 1.2 290 (+ants).

March! on new live oak <sup>(sl. 4d. 7)</sup> ~~sl. 4d. 7~~ <sup>granite</sup>  
May 23, 1891. Hd 8 mm. Hd black, labrum  
whitish. Body flattened, a S-d ridge,  
tapering especially post, but rounded  
segments arched, dorsal not a ridge  
lateral S-d ridge, L 10, W 3 mm.  
Body very minutely pilose with lat-  
tice of 2-4 setae per seg. along the  
dorsal & S-d ridges. Yellowish green,  
the S-d ridge faintly overlaid with  
yellow, the S-d ridge with whitish  
and strongly tinged with pink on  
the S-d space. Legs normal, short.  
<sup>(no ants)</sup>  
A ~~small~~ <sup>small</sup> ~~thing~~ <sup>thing</sup> ~~very~~ <sup>very</sup> ~~small~~ <sup>small</sup> ~~thing~~ <sup>thing</sup> ~~very~~ <sup>very</sup> ~~small~~ <sup>small</sup> ~~thing~~ <sup>thing</sup>  
darker green, lacking the pink tinge.  
**YOSEMITE, CAL.**  
West June 4? Same host with minute  
white granules. Larva less distinct  
with almost absent. Head about



204 Cole 2 4 7 11 10 0 0

US 2,752,000

as at 1  
a dirt yellow line on o-v ridge & faint  
lateral body yellowish green  
minutely pilose. No black, <sup>upper part</sup> <sup>reticulate</sup> <sup>reticulate</sup>  
white. A smooth & the dorsal green  
was bad. H. E. 50/100  
except a black shade on each side  
all the rest dark or bluish green,  
lacking white green. Not much brownish  
(Little one died 4/1/02)

Y O S E M I T E C A L

$$270^\circ = 7 \text{ giorni}$$
$$\begin{array}{r} 65'28'' \\ 55'2'' \\ \hline 82'56'' \end{array}$$

886  
97.15

1541

~~5 6 13~~  
~~2 5 7~~  
~~5 13~~

2nd line 1.4 mm - 2nd line nearly unbroken  
broken 2nd one, all on 1st line  
less distance between 1st & 2nd, brownish  
L 1.6 mm W 6 mm height  
height 5 mm (yellow)  
(body 1 light green) (I should  
of shape on  
the post half  
of 2  
diphenyl  
Paper for 15 over 11

Aug 16

\* take 5th dist and  
aligned containers

piliferous dots. Ocrea geminate de.  
 single s.d. sty 2 on s-v fold  
 pale whitish lines (becoming yellow)  
 spiracles small, yellowish  
 A suspended (s.d. lines 2 or  
 more apart) no red setae, last  
 pile s-v ridge large & stiffer. A  
 round diamond depressed behind  
 on 2, about the center of the joint on  
 which the blackish elevated  
 piliferous dots are, usually seen  
 elsewhere. Page June 16/26 to 13?  
 much as if 2 to 3rd joint, was small & deep  
 reddish brownish with a very slight  
 depression for the 1st & 2nd color pale  
 green, spiracles small, whitish (but  
 family) a bright yellowish s.d. line  
 on abd. joints on the 2nd & 3rd double  
 as a d. yellowish dots. June 16/26

# Pupa 270 short, thick, flat on ventral  
side, rounded dorsally especially  
the sides. a depression bet. thorax &  
abd. Fastened by cremaster & a loop  
of silk. Pale colored pinkish  
speckled with black, a black  
dorsal line on the head & confluent  
spots on depressed but the abd  
a subdorsal row of black dots  
on the abdomen **DEAD!**

Abd. 1  
& head

### Parts of head.

"eyes" = ocelli (ocellus)

"Δ plate" = clypeus = Δ pl \*

"labium" = labrum

"back of head" = occiput

in front of occiput  
or forming part of  
the sides of head  
& lower of the under  
(ventral) surface } = epicranium (?) \*

"vertex" = vertex

"clippers" = mandibles \*

"jaws" = maxillae \*

lower lip = labium

\* Distal



xx Pupa 270 short, thick, flat on ventral  
side, rounded dorsally especially  
the abd. a depression bet. thorax &  
abd. Fastened by cremaster & a loop  
of silk. Pale soiled pinkish  
speckled with black, a black  
dorsal line on the head, 2 confluent  
spots in depression bet. the abd  
& a subdorsal row of black dots  
on the abdomen DEAD!

alcohol

5 head

947



## Parts of head.

"eyes" = ocelli (ocellus)

" $\Delta$  plate" = clypeus =  $\Delta$  pl \*

"<sup>above mouth</sup>labium" = labrum

"back of head" = occiput

in front of occiput  
or forming part of  
the sides of head  
& even of the under  
(ventral) surface } = epicranium (?) \*

"vertex" = vertex

"clippers" = mandibles \*

"jaws" = maxillae \*

lower lip = labium.

\*Luttrell

# Parts of the Body

Packard

Edwards

|                     |   |   |
|---------------------|---|---|
| Head                |   |   |
| Prothoracic segment |   |   |
| Mesothoracic        | " |   |
| Metathoracic        | " |   |
| First abdominal     | " |   |
| Second              | " | " |
| Third               | " | " |
| Fourth              | " | " |
| Fifth               | " | " |
| Sixth               | " | " |
| Seventh             | " | " |
| Eighth              | " | " |
| Ninth               | " | " |
| Tenth               | " | " |

|       |    |
|-------|----|
| Joint | 1  |
| "     | 2  |
| "     | 3  |
| "     | 4  |
| "     | 5  |
| "     | 6  |
| "     | 7  |
| "     | 8  |
| "     | 9  |
| "     | 10 |
| "     | 11 |
| "     | 12 |
| "     | 13 |

}

